

Faculty of Health Sciences

Research report 2012

Department of Medicine

Research report 2012

Head of Department: Professor B.M. Mayosi

Departmental Profile

The Department of Medicine is a large clinical department which plays a leading role in medical education and research, and provides clinical services to the communities of the Western Cape and, in the case of our highly specialised services, to patients throughout southern Africa. The Department consists of 21 clinical and service divisions, 11 major research units, and four affiliated departments of medicine at GF Jooste, New Somerset, Il Military, and Victoria hospitals (www.medicine.uct.ac.za). Each day, members of the department treat an average of 2,000 patients in our clinics, admit about 100 patients to our hospital services and perform over 210 medical procedures. The department offers a number of highly specialised services that are unique nationally such as allergology, bone marrow, heart, kidney, and liver transplantation, cardiac electrophysiology, endobronchial ultrasound guided bronchoscopy, and double balloon enteroscopy for visualisation of the small bowel.

There approximately 80 registrars who are training in the department, 20 of whom are from other countries such as Botswana, Ghana, Kenya, Libya, Malawi, Namibia, Swaziland, Tanzania, Uganda, Zambia, and Zimbabwe. The department produces formularies and guidelines that are used in most health facilities in South Africa, such as the *South African Medical Formulary* and *Primary Care 101*.

Departmental Statistics

Permanent and Long-term Contract Staff

Professors	16
Associate Professors	22
Senior Lecturers/lecturers Full-time	85
Administrative and clerical staff	37
Total	160

Honorary Staff

Honorary Professors	7
Emeritus Professors	4
Honorary Associate Professors	3
Honorary Senior Lecturers	40
Honorary Research Associates	5
Total	59

Students

Doctoral	39
Masters	122
Undergraduates	1134
Total	1295

Research Fields and Staff

See Divisions and Research Units within the Department

Contact Details

Postal Address:

Department of Medicine,
Faculty of Health Sciences
University of Cape Town,
Observatory 7925,
Cape Town

Telephone: +27 21 406 6200

Fax: +27 21 448 6815

E-mail: faiza.pearce@uct.ac.za

**DEPARTMENT OF MEDICINE
DIVISION OF CLINICAL IMMUNOLOGY**

Head of Division: Associate Professor S.R. Ress

Divisional Profile

The Division of Clinical Immunology undertakes a multi-disciplinary activity that includes teaching of undergraduate and post-graduate students, evaluation of immune function in patients with suspected immune deficiency, and a translational research programme focussed on immunology of autoimmunity, HIV and TB.

Divisional Statistics

Permanent and Long-term Contract Staff

Associate Professors	1
Technical Support Staff	1
Total	2

Research Fields and Staff

Associate Professor Stanley Ress
Immunology of tuberculosis; Autoimmunity

Contact Details

Postal Address:
Clinical Immunology Laboratory,
H47 Old Main Building,
Groote Schuur Hospital,
Observatory 7925

Telephone: +27 21 406 6201
Fax: +27 21 448 6815
E-mail: stan.ress@uct.ac.za

**DEPARTMENT OF MEDICINE
DIVISION OF DERMATOLOGY**

HEAD OF DIVISION: Associate Professor Nonhlanhla P. Khumalo

DIVISION PROFILE

The Division's training programme includes undergraduate teaching of 2nd to 6th year MBChB students. Postgraduate students include 8 registrars, 1 MRC fellow and 2 PhD fellows. The main research contributions of the Division are in the epidemiology, treatment and prevention of hair disorders and drug-induced skin injury.

**DEPARTMENTAL STATISTICS
PERMANENT AND LONG TERM CONTRACT STAFF**

Associate Professor	1
Emeritus Professor	1
Senior Lecturers (full-time)	2
Senior Lecturers (part-time, 5/8)	2
(part-time, sessional)	4
Lecturer (part-time, 5/8)	1
(sessional, DOE funds)	1
Research Staff	4
Administrative and Clerical Staff	4
Honorary Lecturers	3
TOTAL	23

STUDENTS

Doctoral	3
Masters	9
Undergraduate	784
TOTAL	796

**RESEARCH FIELDS
PERMANENT STAFF**

Associate Professor Nonhlanhla Khumalo

Professor Khumalo is NRF rated and runs the only academic hair research clinic in the country (with Dr. Laduma Ngwanya). Her research interests include the epidemiology and treatment of hair and scalp disorders that uniquely affect individuals with afro-textured hair. Her international collaboration studies use various research tools - scanning (and transmission) electron microscopy and amino acid analysis of hair. Current studies are investigating the link between folliculitis keloidalis nuchae and HIV transmission. She is also developing a hair classification tool that will be useful for elucidating the relationship between the pathogenesis of alopecia and hair phenotype.

Dr Rannakoe Lehloenya

Dr Rannakoe Lehloenya leads a study of the clinical, molecular and genetic aspects of severe cutaneous adverse drug reactions (SCAR). Intrinsic to this will be the development of a predictive model for ascribing causality to ensure safe drug reintroduction especially for antituberculosis treatment reactions. Several other closely related clinical studies include a follow up of patients to assess long term sequelae, evaluation of placenta and newborn following SCAR in pregnancy and the use of clobetasol to prevent nail sequelae of SCAR. The division has become the only African member of the international group, RegiSCAR, contributing cases to the group database, essential as the cause of these reactions in Africa is very different from Europe and Asia.

**DEPARTMENT OF MEDICINE
CHRONIC DISEASES INITIATIVE IN AFRICA (CDIA)**

Director: Professor N.S. Levitt

Divisional Profile

The Chronic Diseases Initiative in Africa (CDIA), funded by the United Health Chronic Disease Initiative and the National Heart Lung Blood Institute (NHLBI), was launched in November 2009. It forms part of an 11 centre Global Health Initiative focussing on non communicable disease research in the developing world. CDIA comprises of a network of researchers drawn from the University of Cape Town, Stellenbosch University and the University of the Western Cape, along with the South African Medical Research Council, Harvard University and Shree Hindu Mandal Hospital, Tanzania, in addition to representatives from local and national Departments of Health. CDIA's mission is to serve as a collaborating initiative for the development, evaluation and dissemination of methods and programmes to prevent chronic non-communicative diseases, and improve the quality of care for people with these diseases and their risk factors.

Research

Currently funded projects:

Develop, evaluate and implement integrated chronic disease management guidelines for primary care providers

Eden District Randomised, Controlled-Trial for Primary Care of Chronic, Non-Communicable Diseases (NCDs) is being conducted to test the effectiveness of a novel training approach based on a previously tested model of syndromic screening and management of patients with conditions such as chronic obstructive pulmonary disease, asthma, or TB. A written guideline (101 pages) has been prepared for the management of chronic diseases by primary care nurses and doctors. The trial will test whether the approach, previously shown to be effective for respiratory diseases including tuberculosis and HIV/AIDS, will remain effective when expanded to include the primary care management of other major categories of chronic diseases (hypertension, diabetes, depression).

To calibrate and validate a non-laboratory based screening tool for cardiovascular disease (CVD) risk prediction in South Africa

The predictive performance and risk discrimination of the non-laboratory-based risk score to five commonly used laboratory-based scores (Framingham CHD and CVD, SCORE for low and high risk settings, CUORE) was evaluated in 11 South African cohorts, which represents all cross sectional studies conducted in the country over the past 25 years for which the necessary data were available.

Develop, evaluate and implement an economic model to assess the cost-effectiveness of interventions.

This project aims to develop a CVD Prevention and Management Model that would allow us to predict CVD events accurately and be used in cost-effectiveness analyses comparing the use of different screening and intervention strategies.

Develop the capacity of community health workers, primary care facilities and managers in the area of chronic diseases

This project aims, in collaboration with the provincial DOH to define the role of a community health worker in caring for patients with NCDs and to develop suitable NCD training materials and tools for this group.

Develop, evaluate and implement lifestyle tools for the general public and patients.

"Putting Prevention into Practice" This project aims to produce and pilot a resource package for primary health care providers and community health workers to enable them to offer brief, best practice,

behavioural change counselling in a variety of settings, on the topics of smoking; poor diet; obesity and overweight and lack of physical activity.

Develop, evaluate and implement new models for health education, communication and empowerment of patients

The evaluation, by means of a pragmatic cluster randomized controlled trial, the effectiveness of a group diabetes education programme delivered by health promoters with a guiding (motivational interviewing) style, in community health centres in Cape Town.

Divisional Statistics

CDIA/UCT Permanent and Long-term Contract Staff

Professor	1
Professor (Visiting)	1
Social Scientist	1
Administrative and Clerical Staff	2
Total	5

Prof Naomi Levitt	Professor
Prof Krisela Steyn	Professor
Mrs Kathy Murphy	Social Scientist
Carmelita Sylvester	Centre Manager
Susan Botha	Administrative

UCT Network Members

Professor	5
Senior Lecturer	1
Other (Senior Researcher)	1
Total	7

Prof Bongani Mayosi	Professor
Prof Eric Bateman	Professor
Prof Vicky Lambert	Professor
Prof Karen Sliwa-Hahnle	Professor
A/Prof Alan Bryer	A/Professor
Dr Tracy Kolbe-Alexander	Senior Lecturer
Dr Lara Fairall	Senior Researcher

NON-UCT Network Members

Prof Thandi Puoane (UWC)	Professor
Prof Bob Mash (Stellenbosch)	Professor
Prof Debbie Bradshaw (MRC)	Professor
Prof Carl Lombard (MRC)	Professor
Dr Thomas Gaziano (Harvard)	Adjunct Assistant Professor
Dr Kaushik Ramaiya (Shree Hindu Mandal Hospital, Tanzania)	Senior Lecturer
Mr Jimmy Ledwaba (Provincial Government, Dept. of	Other

Health)	
Ms Unita Van Vuuren (Provincial Government, Dept. of Health)	Other

Contact Details

Postal Address: J47 Floor, Old Main Building, Groote Schuur Hospital

Telephone: +27 21 406 6572

Fax: +27 21 406 6513

E-mail: Carmelita.Sylvester@uct.ac.za

**DEPARTMENT OF MEDICINE
DIVISION OF ENDOCRINOLOGY AND DIABETIC MEDICINE**

Head of Division: Professor N.S. Levitt

Divisional Profile

The Division provides an inpatient and outpatient clinical service and sub-speciality training in adult endocrinology and diabetes. It has close clinical links with Paediatric Endocrinology and Diabetes, Reproductive Endocrinology and Chemical pathology.

Research

The Division is involved in a wide range of research activities, interacts with a number of international and local collaborators and is a member of the recently established Chronic Disease Initiative in Africa. The primary areas of research are:

Metabolic consequences of antiretroviral therapy in HIV+ patients: Cross-sectional and longitudinal studies examining the metabolic consequences of HAART are underway. These are being funded by the World Diabetes Foundation and Department of Health.

Burden of disease: The contribution of diabetes and other chronic diseases to the overall burden of disease pattern in the South African context is being studied in collaboration with Dr Debbie Bradshaw, BOD Group, MRC. A cross sectional survey of diabetes and other cardiovascular risk factors in the Black African community in Cape Town has been completed.

Obesity: In collaboration with the Department of Human Biology, a number of studies are in progress. These examine the mechanisms underlying the aetiology of obesity and insulin sensitivity in black and white African women.

Addison's Disease: Cardiovascular risk factors in Addison's disease has been investigated in collaboration with the University of Gothenberg. The impact of glucocorticoid receptor polymorphisms on cardiovascular risk factors has been assessed in Addison's disease.

Health Systems Research: The Division collaborates in projects being conducted by the Chronic Diseases Initiative in Africa. These include: a pragmatic cluster randomised trial of an integrated guideline for the management of diabetes and other chronic diseases in primary care centre, a randomised controlled trial to evaluate the effectiveness of a group diabetic education programme using motivational interviewing in underserved communities; and the development of a resource package for primary health care providers and community health workers to enable them to offer brief counselling on lifestyle.

Divisional Statistics

Permanent and Long-term Contract Staff

Professor	1
Professor (visiting)	1
Senior Lecturers	2
Senior Registrar in Training	1
Medical Officer (sessional)	1
Diabetes Specialist Nurse	2

Administrative and Clerical Staff	1
Total	8

Research Fields and Staff

Professor N S Levitt

Diabetes and hypertension health systems research, diabetes burden of disease, mechanisms underlying the metabolic sequelae of obesity, metabolic consequences of HAART

Professor K Steyn

Hypertension health systems research, burden of chronic disease and smoking in pregnancy

Dr I L Ross

National registry for Study of Addison's Disease and polyglandular autoimmune syndrome

Dr J Dave

Incidence of osteoporosis and vertebral fractures in patents with inflammatory bowel disease Metabolic consequences of antiretroviral therapy

Contact Details

Postal Address: Divisions of Endocrinology and Diabetic Medicine, Department of Medicine, Faculty of Health Sciences, Observatory, 7925

Telephone: +27 21 406 6140

Fax: +27 21 406 6513

E-mail: susan.botha@uct.ac.za

**DEPARTMENT OF MEDICINE
DIVISION OF GASTROENTEROLOGY (Gastrointestinal Clinic)**

Head of GI Clinic: Professor S Thomson

Divisional Profile

The Gastrointestinal Clinic is a multi-disciplinary clinical unit consisting of Medical and Surgical components. This report primarily reflects the Medical component. The Clinic carries a large clinical load and offers a number of specialised services, with clinical and applied research interests in: Hepatobiliary disease; Colorectal disease; Oesophageal disease; Inflammatory bowel disease; *H.pylori* related disease; and Nutrition. The Clinic is involved in a number of collaborative research projects.

Divisional Statistics

Permanent and Long-term Contract Staff

Lecturers	5
Research Staff	1
Administrative and Clerical Staff	1
Total	5

Students

Masters	4
---------	---

Research Fields and Staff

Dr Gill Watermeyer: Risk of malignancy in inflammatory bowel disease treated with Azathioprine or 6-Mercaptopurine; Predicting bad outcome in Crohn's disease; drug trials – various
Dr Dion Levin: Bleeding Peptic Ulcer Disease; *Helicobacter.pylori* testing.
Dr Sabelo Hlatshwayo: Achalsia.
Dr Mashiko Setshedi: Drug induced liver injury.

Contact Details

Postal Address: GI Clinic, E23, New Main Building, Groote Schuur Hospital, Observatory, 7925
Telephone: +27 21 404 3040
Fax: +27 21 447 0582
E-mail: sandie.thomson@uct.ac.za

**DEPARTMENT OF MEDICINE
DIVISION OF HAEMATOLOGY and UCT LEUKAEMIA UNIT**

Head of Division: Professor N. Novitzky

Divisional Profile

The Division of Haematology at Groote Schuur Hospital is a complex unit with multi disciplinary activities that include outpatient clinics, admission beds as well as diagnostic and research laboratories. The clinical services are organised under the umbrella of the Department of Internal Medicine, while the laboratory diagnostic sections are under the broader organisation of the Department of Clinical & Laboratory Sciences and National Health Laboratory Service (NHLS). The Haematology section of the laboratory was accredited with SANAS 3 years ago and after review, this accreditation was confirmed last year.

Patients with elaborate clinical problems, bone marrow failure or requiring stem cell transplantation are referred from all provinces; particularly the Northern and Eastern Cape and particularly we receive referrals from foreign institutions in Sub-Saharan Africa. In addition, individuals with multiple myeloma and other lymphoproliferative disorders are treated together with the Department of Radiation Oncology in combined clinics. Of concern is that a substantial increase in the numbers of HIV related malignancies and particularly Burkitt's lymphoma and leukaemia that have significantly strained our hospital beds.

The Division of Haematology provides training for both undergraduate and postgraduate students at the Medical Faculty. Registrars and consultants participate in undergraduate training, facilitating various modules focussing in blood disorders. At the postgraduate level, training is given at the level of Masters and PhD courses in cell biology as well as specialist training in haematopathology for medical graduates. In addition, within the Department of Clinical and Laboratory Sciences 3 divisions participate in the training provided to Clinical Pathology candidates. Regular experiential teaching and microscope tutorials are given to registrars in Haematopathology. Journal Clubs, seminars and group teaching is offered to Haematopathology, Clinical Haematology and general medical registrars. Interdepartmental meetings are held with academic staff from Tygerberg Hospital and Red Cross War Memorial Children's Hospital. Faculty members from the division also regularly contribute to the teaching programmes of the basic sciences as well as Departments of Internal Medicine and Clinical and Laboratory Sciences.

In addition a University of Cape Town Leukaemia Unit established within the division, has now been reviewed and approved by the University Research Committee and will continue focusing its research work in the area of haemopoietic stem cell biology and stem cell transplant immunology. The research laboratory located at the medical school campus is well equipped to support undergraduate and postgraduate pathology and science students. Dr Shaheen Mowla has joined Dr Karen Shires to expand the molecular and cellular research in the Leukaemia Unit laboratory. The main objective will be to pursue further research into the area normal and malignant haematopoiesis, detection of minimal residual disease in patients with leukaemia, cellular therapies and stem cell transplantation.

Divisional Statistics

Permanent and Long-term Contract Staff:

Professor	1
Clinical Service	
Senior Specialists	2
Clinical Registrars	3

Senior House Officers	2
Chief Professional Nurse	2
Administrative and clerical staff	3
Diagnostic Service	
Senior Pathologist	1
Pathologists	2
Pathologist part-time	1
Scientist	1
Pathology Registrars	5
Laboratory Manager	1
Medical Technologists	17
Technicians	4
UCT Leukaemia Unit	
Scientist	1
Research Officer	1
Research Technologist	1
Clinical Research Co-Ordinator	1
Administrative and clerical staff	1
Laboratory assistants (medical school)	2

Students

Doctoral	2
Masters	3
MMed	2
Honours	1

Research Fields and Staff

Professor Nicolas Novitzky

Haematopoietic stem cell biology; clonogenic assays; haematopoietic stem cell transplantation; immune reconstitution; haematological malignancies

Dr Cecile du Toit

Haematopoietic stem cell transplantation; haematological malignancies; haemophilia

Dr. Estelle Verburgh

Myelodysplastic syndrome

Dr Maureen Stein

Haematopoietic stem cell biology

Dr Jessica Opie

Molecular biology of neoplasia: chronic myelogenous leukaemia; coagulation abnormalities

Dr Karen Shires

Molecular biology and diagnostics

Dr Shaheen Mowla
Minimal residual disease and flow cytometry.

Mrs Rygana Abdulla
Cellular biology of neoplasia; clonogenic assays

Contact Details

Postal Address: 6th Floor, Chris Barnard Building, Anzio Road, Observatory, 7925

Telephone: +27 21 406 6154/404 3073

Fax: +27 21 448 8607

E-mail: Coleen.Fredericks@uct.ac.za

Web: <http://web.uct.ac.za/depts/haem/>

**DEPARTMENT OF MEDICINE
DIVISION OF HEPATOLOGY**

Head: Associate Professor Wendy Spearman

Divisional Profile

The Division of Hepatology runs the only dedicated liver clinic as well as the only state liver transplant programme in the country. We also run a Porphyria clinic.

The unit is referred patients from all provinces in South Africa as well as from neighbouring countries such as Zimbabwe and Namibia for assessment regarding the aetiology and management of both acute and chronic liver disease and suitability for liver transplantation. These referrals come from both the private and public sector.

We provide a direct call-in service telephonic to primary, secondary and tertiary medical centres regarding management of liver disease. The Liver unit works closely with the Surgical Hepatobiliary unit and collaborates with the Surgical Research laboratory.

The major areas of research include: viral hepatitis, autoimmune liver disease, immune abnormalities in liver disease, HIV and liver disease, porphyria, liver transplantation and development of bioartificial liver support devices.

The unit is actively involved in drawing up national guidelines for the management of Hepatitis B / HIV coinfection Hepatitis B and Hepatitis C.

Divisional Statistics

Permanent and Long-term Contract Staff

Associate Professors	1
Senior Lecturers / Research Officers	2
Technical Support Staff	2
Total	5

Honorary Staff

Honorary staff	1
----------------	---

Research Fields and Staff

H.N. Hairwadzi
Autoimmune liver disease; viral hepatitis, bone disease in chronic liver disease

M.W. Sonderup
HIV and liver disease; viral hepatitis; porphyria

C.W.N. Spearman

Liver transplantation; viral hepatitis; paediatric liver disease, acute liver failure and bioartificial liver support devices

M. Setshedi
Drug-induced liver injury

M. Kew
Hepatitis; liver cancer

Contact Details

Postal Address: Division of Hepatology, Department of Medicine, University of Cape Town, Medical School, Observatory, 7925
Telephone: +27 21 406 6394
Fax: +27 21 448 6815
E-mail: Wendy.Spearman@uct.ac.za

**DEPARTMENT OF MEDICINE
THE ALBERTINA AND WALTER SISULU INSTITUTE OF AGEING IN AFRICA/ DIVISION OF
GERIATRIC MEDICINE**

Head of Division of Geriatric Medicine: Professor M Combrinck

Acting Head of Institute of Ageing in Africa : Dr S. Kalula

Institute Profile

The Albertina and Walter Sisulu Institute of Ageing in Africa (IAA) is a Cross-Disciplinary Group. The IAA represents a coalescence of institute – wide disciplines with a focus on ageing: specifically Geriatric Medicine; Geriatric Neurology; Geriatric Neuropsychology and Old Age Psychiatry. The International Longevity Centre–South Africa is incorporated in the Institute. The vision of the IAA is to be an academic, clinical, research and policy centre of excellence and relevance in Africa. Its mission is to facilitate the delivery of the highest standard of inter-disciplinary, in-context training for health and allied professionals and evidence-based clinical and social care for older people, whilst undertaking appropriate research and audit upon which policy and planning for older persons may be based. The mission is achieved through inter-disciplinary partnerships and teamwork, and human resources development within current legal, ethical and financial constraints. The IAA is a leader in the area of research on ageing in sub-Saharan Africa, and enjoys international recognition and acclaim.

Institute Statistics

Permanent and Long-term Contract Staff

Associate Professor	1
Senior Lecturers	5
Senior Scientific Officer	1
Medical registrars	2
Administrative and Clerical Staff	1
Total	10

Honorary Staff

Visiting Researcher	1
Senior Lecturer	2
Total	3

Students

Doctoral	3
Masters	3
Total	6

Research Fields and Staff

Dr Sebastiana Kalula
Epidemiology of dementia; falls; quality of care.

Dr Linda de Villiers

Stroke risk factors and rehabilitation; post-discharge stroke community care.

Professor Marc Combrinck

NRF Research Chair in Clinical Neurosciences: neuro-inflammation and mechanisms of neuro-degeneration with specific reference to cognitive impairment in the elderly and in HIV-associated encephalopathy.

Dr Kevin G.F. Thomas

Senior Lecturer, Department of Psychology: geriatric neuropsychology; dementia; impact of stress on memory; impact of life stressors on age-related cognitive decline.

Associate Professor John A. Joska

Senior Lecturer, Division of Neuropsychiatry, Department of Psychiatry and Mental Health: neurocognitive disorders in HIV infection.

Contact Details

Postal Address: The Albertina and Walter Sisulu Institute of Ageing in Africa, Faculty of Health Sciences, University of Cape Town, L51, Old Main Building, Groote Schuur Hospital, Observatory 7925, Cape Town, South Africa.

Telephone: +27 21 406 6211

Fax: +27 21 406 6846

E-mail: iaa-institute@uct.ac.za

Web: <http://www.instituteofageing.uct.ac.za>

**DEPARTMENT OF MEDICINE
DIVISION OF NEPHROLOGY AND HYPERTENSION**

Heads of Division: Associate Professor B.L. Rayner

Divisional Profile

Currently the new division offers a wide range of clinical services including chronic and acute dialysis, renal transplantation, assessment and treatment of a broad range of kidney disease and resistant hypertension, 24 blood pressure monitoring renal biopsies, prevention of chronic kidney, and cardiovascular risk assessment. The unit is supported by a dedicated team of transplant surgeons. Treatment is offered to both private and indigent patients. It also offers out reach programmes to Khayelitsha Community Health Centre and GF Jooste Hospital locally, and to George Hospital, the Northern and Eastern Cape.

There is active training programme for senior registrars in Nephrology and the unit is currently training 5 nephrology fellows. The division supports the Department of Medicine training of medical students, specialist physicians and professions allied to medicine. The division also supports training of renal technologists and the nephrology course for nurses.

The main academic research activities of the division relate to renal bone disease; systemic lupus erythematosus (SLE); genetics of salt sensitive hypertension; diabetic nephropathy; classification, genetics, prevalence and treatment of HIV associated nephropathy; the genetics of ACE inhibitor related angioedema in black and coloured South Africans; treatment of renal artery stenosis due to atherosclerosis; vascular calcification in CKD stage 5 and its effects on central aortic BP; detection of vascular calcification; and the effects of antiviral treatment on BP in patients living with HIV.

Divisional Statistics

Permanent and Long-term Contract Staff and students

Associate Professors	2
Senior Lecturers	2
Emeritus Professor	1
Senior registrar	5
Part-time consultant	1
Medical officers	3
Medical registrars	3
PhD Students	0
Total	15

Research Fields and Staff

Associate Professor C.R. Swanepoel

HIV and the kidney – worked on the development of a HIV and renal disease classification. Principal researcher is Dr N Wearne.

Dr Z Barday

Kidney transplantation

Dr Yvonne Trinder

Hypertension

Dr Ike Okpechi

Lupus registry; Quality of life in CAPD patients

Associate Professor Brian Rayner

Cardiovascular outcomes in renal atherosclerotic lesion (CORAL Study): A prospective, multi-center, unblinded, two-arm, randomized trial; Genetics of salt sensitive hypertension (PhD dissertation); PTH and low renin hypertension; The genetics of ACE inhibitor related angioedema in black and coloured South Africa

Dr Nicola Wearne

Retrospective analysis of all HIV positive renal biopsies between 2004 and 2008 at GSH hospital; Prospective observational study of all HIV positive patients who undergo a renal biopsy at GSH hospital to establish best medical management, mortality and spectrum of disease; HIV related renal disease: Histological Classification; Randomised controlled study: Treatment of HIV +ve patients with confirmed HIVAN on renal biopsy with Corticosteroids; Epidemiology of renal dysfunction and chronic kidney disease in HIV positive HAART naïve patients

Contact Details

Postal Address: E13 Groote Schuur Hospital, Observatory, 7925

Telephone: +27 21 404 3318

Fax: +27 21 404 5215

E-mail: mmcadi@pgwc.gov.za

**DEPARTMENT OF MEDICINE
DIVISION OF NEUROLOGY**

Head of Division: Associate Professor A. Bryer

Divisional Profile

A general clinical neurology service is operated at Groote Schuur Hospital. This provides a full range of clinical activities, including in-patients, consultative, and emergency services. Additionally, there is a clinical neurophysiology laboratory, a dedicated acute stroke unit, and specialised clinics for stroke, myasthenia gravis, HIV neurology, neuro-genetic disorder and epilepsy.

Areas of research include:

Stroke: A large cohort of stroke patients were followed up for 6 months post incident stroke to determine survival, disability and functional outcomes following their discharge from an acute stroke unit to community-based health care and rehabilitation. Factors predictive of poor outcome were identified. Data from this study are being used to develop a community based model of stroke care. An in-service training program for health care workers involved in stroke care in under-resourced settings is being developed. The new South African National Guideline for the management of acute ischaemic stroke and TIA has been published with substantial input from the GSH/UCT stroke Unit. A longitudinal study of HIV associated stroke to evaluate the underlying biological mechanisms (specifically endothelial dysfunction and ultrasonographic vascular phenotypes) has been undertaken.

Myasthenia gravis: Clinical and Laboratory-based research projects are focussed on improving therapeutic strategies and increasing understanding of disease pathogenesis.

- a. Methotrexate vs. azathioprine randomized trial completed. Presented at NASA and ANA 2010. Submitted to Neuromuscular Dis. 2011
- b. A Multi-center, Randomized Study comparing Thymectomy to No Thymectomy in Myasthenia Gravis- International study NIH funded. On advisory committee.
- c. The psychiatric manifestations in thymomatous MG (Dr Freeman, Psychiatry) Complement regulation in MG subjects with DAF promoter SNP and the effect of therapies. This work done by the Neurology Research Group in partnership with Human Biology laboratory. PI J Heckmann with Dr's Amaal Abrahams and Sharon Prince. MSc student Ms J Auret.
- d. TGFb polymorphisms and their association with extraocular muscle MG damage- in collaboration with Dr C Dandara, Human Genetics.

HIV/AIDS: Clinical and Laboratory-based research projects studying the risk factors for developing neuropathy in HIV-infected subjects.

- a. Research collaboration with Endocrine (UCT) and Neurology (Emory University) – longitudinal prevalence study of HIV neuropathy and risk factors at the Crossroads CHC.

Dr Johan van der Watt, received the CIDRI Post Graduate Scholarship award to study inflammation in HIV- associated toxic neuropathy

- b. Dr Chad Centner is studying Pyridoxine & NAT – 2 genotypes as risk factors for HIV- associated neuropathy.
- c. Dr John- Randel Vermaak is studying the incidence of HIV- neuropathy since the cART regimen has changed from d4T to Tenofovir.
- d. Collaboration with Dr's Todd Hulan (Vanderbilt University) and Dr P Sinxadi, Pharmacology, UCT to investigate mitochondrial DNA haplotype and susceptibility to HIV- associated toxic neuropathy by examining mitochondrial haplogroups and association with HIV- associated neuropathy in African subjects on d-drugs.

- e. Dr Friedrich Thienemann is performing a retrospective analysis of demyelinating CNS disease in HIV- infected subjects.
- f. Pilot project examining the efficacy and CSF drug penetration of cART in patient with neurological HIV- associated disease. Dr's Thienemann, Vermaak and Decloedt (Pharmacology)

Dementia: A longitudinal study of cognitive impairment in the elderly, with an emphasis on the role of inflammation in the pathogenesis of Alzheimer's disease. The study includes imaging techniques such as magnetic resonance spectroscopy (MRS) of the brain and volumetric MRI analyses of various brain regions.

Neurogenetics: A clinical and counselling service for patients with Huntington disease and familial spinocerebellar ataxia (SCA) with a study to find an appropriate SNP to target for SCA1 gene silencing and to knock down the expression of mutant Ataxin1.

Multi-media teaching: The use of clinical encounter simulations is being explored.

Drug trials: The division is active in phase 3 drug trials for Parkinson's disease, epilepsy and multiple sclerosis.

Divisional Statistics

Permanent and Long-term Contract Staff

Associate Professors (Full-time)	4
Senior Lecturers (Full-time)	1
Lecturers (Part-time)	2
Total	7

Postgraduate Students

B.Sc Hons	2
M. Sc.	4
PhD	1
M. Med (Psychiatry)	1
M. Med (Family Med)	1
MA (Neuropsychology)	2

Research Fields and Staff

Associate Professor A. Bryer
Stroke; neuro-genetics.

Dr E. Lee Pan
Health systems information technology; multi-media teaching.

Associate Professor J. Heckmann
Myasthenia gravis; HIV neurological disease, HIV neuropathy, neuro-immunology; neuro-genetics.

Dr L. Tucker
Epilepsy

Dr K. Bateman
Tuberculous meningitis

Contact Details

Postal Address: E8, New Grootte Schuur Hospital, Observatory, 7925

Telephone: +27 21 404 3197/8

Fax: +27 21 406 6251

E-mail: alan.bryer@uct.ac.za

**DEPARTMENT OF MEDICINE
DIVISION OF CLINICAL PHARMACOLOGY**

Head of Division: Professor Gary Maartens

Divisional Profile

The major research thrusts of the division are focused on drugs for malaria, tuberculosis and HIV. The research in these fields is broad and encompasses drug discovery, pharmacokinetics, pharmacogenomics, clinical trials, pharmacoepidemiology, and pharmaco-economic evaluation. The analytical laboratory plays a key research role with small animal models for drug discovery and in patient samples for drug concentrations. A large multicentre malaria clinical research group headed by Prof Karen Barnes has secured substantial funding from the Gates Foundation and the Global Fund – this programme is at the forefront of translational malaria research in Africa. The MRC South African Traditional Medicines Research Group is a drug discovery programme: Prof Kelly Chibale, Dept Chemistry, UCT and Prof Peter Smith from our division are co-directors. Compounds with antimalarial, antibacterial (including antitubercular) and antifungal activity are identified and optimised from plants used in traditional medicine. The analytical laboratory has recently been awarded funding from NIH as an International Pharmacology Specialty Laboratory. Prof Helen McIlleron heads our clinical pharmacokinetic group, which conducts a series of pharmacokinetic studies evaluating antitubercular drugs, antiretroviral drugs, and the interaction between them in adults and children with funding from the Wellcome Trust, NIH, and MRC. Our collaboration on population pharmacokinetics with Uppsala University is ongoing and we have a pharmacometric laboratory to perform these complex analyses.

Divisional Statistics

PERMANENT AND LONG TERM CONTRACT STAFF

Professors	2
Associate Professors	3
Senior Lecturer	3
Senior Research Officer	1
Medical Research Officer	1
Registrars	4
Research Fellow	1
Technical Support	10
Database Manager	1
Quality Assurance Manager	1
Information Pharmacist	4
Editor SAMF	1
Clinical Trial Monitors	1
Administrative and Clerical Staff	7
Departmental Assistance	1
TOTAL	41

HONORARY STAFF

Honorary professor	1
Honorary Lecturers	2
Honorary Research Associates	1
TOTAL	4

POSTGRADUATE STUDENTS

Post Doctoral	1
Doctoral	13
Masters	1
TOTAL	15

Research Fields and Staff

Barnes, KI.

Malaria, combination antimalarial therapy – operational and policy research. Antimicrobial pharmacokinetic studies to inform optimal dosing in vulnerable populations

Blockman, M.

Rational and cost-effective prescribing of medicines; drug utilisation review; adverse drug reaction monitoring; drug policy and regulation; human research ethics.

Campbell, WE.

Phytochemical studies on indigenous Amaryllidaceae species; structural studies on active compounds isolated from traditional medicinal plants

Cohen, K.

Antiretroviral pharmacokinetics and efficacy; pharmacokinetics of antiretrovirals in children; pharmacoepidemiology.

Gabriels, G.

Analytical chemistry, pharmacokinetics, traditional medicines, drug discovery and development, drugs and sport performance

Maartens, G.

Adherence to antiretroviral therapy; immunopathology & diagnosis of HIV-associated tuberculosis; pharmaco-economic evaluation of antiretroviral therapy; pharmacogenomics of antiretrovirals

McIlleron, H.

Pharmacokinetic-pharmacodynamic relationships of antitubercular and antiretroviral drugs; pharmacogenomics; population pharmacokinetics; drug interactions between antiretrovirals and rifamycins.

Smith, PJ.

Mechanisms of antimalarial drug resistance; pharmacokinetics of anti-tuberculosis drugs; isolation of novel drugs from traditional medicines; development of new drug assays.

Wiesner, L.

Pharmacokinetics of antimalarial drugs; drug assay development; metabolite identification; drug formulation.

Contact Details

Postal Address: Division of Clinical Pharmacology, University of Cape Town, K45, Old Main Building, Groote Schuur Hospital, Observatory, 7925

Telephone: (021) 406 6286
Fax: (021) 448 1989
Email: gary.maartens@uct.ac.za

**DEPARTMENT OF MEDICINE
DIVISION OF RHEUMATOLOGY**

Head of Division: Professor Asgar Ali Kalla

Divisional Profile

The Division of Rheumatology has several research interests relating to different aspects of the rheumatic diseases. Osteoporosis is an area of interest for many years and there is ongoing collection of longitudinal bone mineral density data in patients with rheumatoid arthritis (RA) and systemic lupus erythematosus (SLE). Age-related bone loss at different skeletal sites is being prospectively studied in collaboration with the Department of Nuclear Medicine and the Endocrine Unit. Recently, collaborative studies with the Division of Hepatology have been carried out to see the relationship between bone mineral density (BMD) and auto-immune hepatitis. Clinical drug trials are in progress to study the safety and efficacy of the newer biological DMARDs in RA and SLE.. Recently, the trials of coxibs are concentrating on cardiovascular outcomes to a greater extent than their gastr-toxicity. We have also been looking at SLE genetics in collaboration with the Hepatology, with particular reference to the Vitamin D receptor and its role in the pathogenesis of auto-immune diseases. Newer areas of research include the study of chronic tophaceous GOUT; community aspects of diagnosing and treating rheumatic diseases at Community Health Centres; early rheumatoid arthritis; genetics of bone loss in SLE; and functional problems in ankylosing spondylitis.

Divisional Statistics

Permanent and Long-term Contract Staff

Professor	1
Senior Lecturer	1
Lecturers	2
Research Staff	2
Nurse practitioner	1
Administrative and Clerical staff	1
Total	8

Honorary Staff

Honorary Lecturers	3
--------------------	---

Students

Rotating Medical Registrar	2
Medical Officer	1
Total	3

Contact Details

Postal Address:
J47 Old Main Building,
Groote Schuur Hospital,

Observatory 7925
Telephone: +27 21 404 5422/2131 or 406 6514
Fax: +27 21 448 3253
E-mail: melanie.burger@uct.ac.za; kallaa@iafrica.com

Research output

Chapters in books

Barnes, K.I. 2012. Antimalarial drugs and the control and elimination of malaria. In H.M Staines and S. Krishna (eds), *Treatment and Prevention of Malaria: Antimalarial Drug Chemistry, Action and Use*, pp. 1-17. London: Springer Science & Business Media B.V. ISBN 9873034604796.

Bekker, L., Beyrer, C. and Quinn, T. 2012. Behavioral and Biomedical combination strategies for HIV Prevention. In F. Bushman, G. Nabel, and R. Swanstrom (eds), *HIV: From biology to prevention and treatment*, pp. 537-559. New York: Cold Spring Harbor Lab Press. ISBN 9781936113408.

Blumberg, L., Cohen, C. and Barnes, K.I. 2012. Malaria. In M. Kibel, H. Saloojee and T. Westwood (eds), *Child Health for All*, pp. 404-411. 5th edition. Cape Town: Oxford University Press Southern Africa. ISBN 9780199042357.

Mazandu, G.K. and Mulder, N.J. 2012. Enhancing drug target identification in mycobacterium tuberculosis. In S.E. Walker and D.F. Martin (eds), *Tuberculosis: Risk Factors, Drug Resistance and Treatment*, pp.181-209. New York: Nova Biomedical. ISBN 9781620819913.

Okombo, J., Mwai, L. and Nzila, A. 2012. Tackling the problem of antimalarial resistance. In K. Chibale, M. Davies-Coleman and C. Masimirembwa (eds), *Drug Discovery in Africa*, pp. 301-324. Germany: Springer Heidelberg New York Dordrecht London. ISBN 9783642281747.

Wearne N. HIV ASSOCIATED NEPHROPATHY: Kumar and Clarke's Clinical Medicine 8th Edition, Kumar P, Clarke M (eds), Elsevier, 2012. ISBN-9780702044991.

Peer-reviewed Journals (DHET Accredited)

Abdullahi, L., Hussey, G.D., Mahomed, H. and Wiysonge, C.S. 2012. Public stewardship of private for-profit care in low-and middle-income countries. *Cochrane Database of Systematic Reviews*, 5: 1-26.

Ahonkhai, A.A., Noubary, F., Munro, A., Stark, R., Wilke, M., Freedberg, K.A., Wood, R. and Losina, E. 2012. Not all are lost: interrupted laboratory monitoring early death, and loss to follow-up (LTFU) in a large South African treatment program. *PLoS One*, 7(3): e32993.

Airoldi, F., Faglia, E., Clerici, G. and Latib, A. 2012. Bailout directional atherectomy for side branch salvage following subintimal recanalization of infragenicular arteries. *Vasa-European Journal of Vascular Medicine*, 41: 292-294.

Akinyi, M., Dandara, C., Gamiendien, J. and Heckmann, J.M. 2012. Association of transforming growth factor beta-1 (TGFB1) regulatory region polymorphisms with myasthenia gravis-related ophthalmoparesis. *Journal of Neuroimmunology*, 246: 96-99.

Akl, E., Kennedy, C., Konda, K., Caceres, C., Horvath, T., Ayala, G., Doupe, A., Gerbase, A., Wiysonge, C.S., Segura, E.R., Schunemann, H.J. and Lo, Y.R. 2012. Using grade methodology for the development of public health guidelines for the prevention and treatment of HIV and other STI's among men who have sex with men and other transgender people. *BMC Public Health*, 12:386.

Alvarez, G.G., Sabri, E., Ling, D., Cameron, D.W., Maartens, G. and Wilson, D. 2012. A model to rule out smear-negative tuberculosis among symptomatic HIV patients using C-reactive protein. *International Journal of Tuberculosis and Lung Disease*, 16(9): 1247-1251.

Aminake, M.N., Mahajan, A., Kumar, V., Hans, R.H., Wiesner, L., Taylor, D., De Kock, C., Grobler, A., Smith, P.J., Kirschner, M., Rethwilm, A., Pradel, G. and Chibale, K. 2012. Synthesis and evaluation of hybrid drugs for a potential HIV/AIDS-malaria combination therapy. *Bioorganic & Medicinal Chemistry*, 20: 5277-5289.

Anderson, P.L., Glidden, D.V., Liu, A., Buchbinder, S.P., Lama, J.R., Guanira, J.V., McMahan, V., Bushman, L.R., Casapia, M., Montoya-Herrera, O., Veloso, V.G., Mayer, K.H., Chariyalertsak, S., Schechter, M., Bekker, L., Kallas, E.G. and Grant, R. 2012. Emtricitabine-tenofovir concentrations and pre-exposure prophylaxis efficacy in men who have sex with men. *Science Translational Medicine*, 4(151): 1-8.

Andrews, J.R., Wood, R., Bekker, L., Middelkoop, K. and Walensky, R.P. 2012. Projecting the benefits of antiretroviral therapy for HIV prevention: the impact of population mobility and linkage to care. *Journal of Infectious Diseases*, 206: 543-551.

Andrews, J.R., Lawn, S.D., Rusu, C., Wood, R., Noubary, F., Bender, M., Horsburgh, C.R., Losina, E., Freedberg, K.A. and Walensky, R.P. 2012. The cost-effectiveness of routine tuberculosis screening with xpert MTB/RIF prior to initiation of antiretroviral therapy: a model-based analysis. *AIDS*, 26: 987-995.

Arentz, M., Pavlinac, P., Kimerling, M.E., Horne, D.J., Falzone, D., Schunemann, H.J., Royce, S., Dheda, K. and Walson, J.L. 2012. Use of anti-retroviral therapy in tuberculosis patients on second-line anti-TB regimens: a systematic review. *PLoS One*, 7(11): e47370.

Ataheer, Q., Portsmouth, S., Napolitano, L., Eng, S., Greenacre, A., Kambugu, A., Wood, R., Badal-Faesen, S. and Tressler, R. 2012. The epidemiology and clinical correlates of HIV-1 co-receptor tropism in non-subtype B infections from India, Uganda and South Africa. *Journal of the International AIDS Society*, 15:2.

Bateman, E.D., Bleecker, E.R., Lotvall, J., Woodcock, A., Forth, R., Medley, H., Davis, A.M., Jacques, L., Haumann, B. and Busse, W. 2012. Dose effect of once-daily fluticasone furoate in persistent asthma: a randomized trial. *Respiratory Medicine*, 106: 642-650.

Bateman, E.D., Feldman, G., Kilbride, S., Brooks, J., Mehta, R., Harris, S., Maden, C. and Crater, G. 2012. Efficacy and safety of the long-acting muscarinic antagonist GSK233705 delivered once daily in patients with COPD. *Clinical Respiratory Journal*, 6: 248-257.

Beach, R.A., Wilkinson, K., Gumedze, F.N. and Khumalo, N. 2012. Baseline sebum 1L-1& is higher than expected in afro-textured hair: a risk factor for hair loss?. *Journal of Cosmetic Dermatology*, 11: 9-16.

Beach, R.A., Wilkinson, K., Gumedze, F.N. and Khumalo, N.P. 2012. Sebum transforming growth factor B1 induced by Hair Products. *Archives of Dermatology*, 148(6): 764-766.

Benatar, S.R. and Benatar, D. 2012. From medical manners to moral reasoning: an historical overview of bioethics in the University of Cape Town's Faculty of Health Sciences. *SAMJ South African Medical Journal*, 102(6): 406-408.

Benjamin, L.A., Bryer, A., Emsley, H.C.A., Khoo, S., Solomon, T. and Connor, M.D. 2012. HIV infection and stroke: current perspectives and future directions. *Lancet Neurology*, 11: 878-890.

Bertram, M.Y., Steyn, K., Wentzel-Viljoen, E., Tollman, S.M. and Hofman, K.J. 2012. Reducing the sodium content of high-salt foods: effect on cardiovascular disease in South Africa. *SAMJ South African Medical Journal*, 102(9): 743-745.

Besana, A., Wang, D.W., George Jr, A.L. and Schwartz, P.J. 2012. Nadolol block of nav1.5 does not explain its efficacy in the long QT syndrome. *Journal of Cardiovascular Pharmacology*, 59(3): 249-253.

Black, J.M., Kruger, R., Roberts, R., Lehloeny, R. and Mendelson, M. 2012. Acute generalised exanthematous pustulosis secondary to cotrimoxazole or tenofovir. *Southern African Journal of HIV medicine*, 13(4): 198-200.

Bleecker, E., Bateman, E.D., Busse, W., Woodcock, A., Frith, L., House, K.W., Jacques, L., Davis, A.M., Haumann, B. and Lotvall, J. 2012. Once-daily fluticasone furoate is efficacious in patients with symptomatic asthma on low-dose inhaled corticosteroids. *Annals of Allergy Asthma & Immunology*, 109(5): 353-358.

Blom, D. 2012. Statin therapy for the octogenarian? *Journal of Endocrinology, Metabolism and Diabetes of South Africa (JEMDSA)*, 17(1): 37-42.

Bloom, C., Graham, C.M., Berry, M.P.R., Wilkinson, K., Oni, T., Rozakeas, F., Xu, Z., Rossello-Urgell, J., Chaussabel, D., Banchereau, J., Pascual, V., Lipman, C.I., Wilkinson, R.J. and O' Garra, A. 2012. Detectable changes in the bloodtranscriptome are present after two weeks of antituberculosis therapy. *PLoS One*, 7(10): e46191.

Bond, E., Liang, F., Sandgrem, K.J., Smed-Sorensen, A., Bergman, P., Brighenti, S., Adams, W., Betemariam, S.A., Rangaka, M.X., Lange, C., Wilkinson, R.J., Andersson, J. and Lore, K. 2012. Plasmacytoid dendritic cells infiltrate the skin in positive tuberculin skin test indurations. *Journal of Investigative Dermatology*, 132: 114-123.

Booyesen, H.L., Norton, G., Opie, L.H. and Woodiwiss, A. 2012. Reverse chamber remodelling following adrenergic-induced advanced cardiac dilatation and pump dysfunction. *Basic Research in Cardiology*, 107(238).

Boulet, L.-P., FitzGerald, J.M., Levy, M.L., Cruz, A.A., Pedersen, S., Haahtela, T. and Bateman, E.D. 2012. A guide to the translation of global initiative for asthma (GINA) strategy into improved care. *European Respiratory Journal*, 39(5): 1220-1229.

Bousquet, J., Anto, J.M., Demoly, P., ... Bateman, E.D.,... Zar, H.J. *et al.* 2012. Severe Chronic Allergic (and Related) Diseases: A Uniform Approach - A MeDALL - GA LEN - ARIA Position Paper. *International Archives of Allergy and Immunology*, 158: 216-231.

Bousquet, J., Schunemann, H.J., Samolinski, B.,... Potter, P.C.,... Bateman, E.D.,... Zar, H.J. *et al* 2012. Allergic Rhinitis and its Impact on Asthma (ARIA): Achievements in 10 years and future needs. *Journal of Allergy and Clinical Immunology*, 130: 1049-1062

Boyles, T.H., Black, J.M., Meintjes, G. and Mendelson, M. 2012. Failure to eradicate isospora belli diarrhoea despite immune reconstitution in adults with HIV - a case series. *PLoS One*, 7(8): e42844.

Boyles, T.H. and Maartens, G. 2012. Should tuberculin skin testing be a prerequisite to prolonged IPT for HIV-infected adults? *International Journal of Tuberculosis and Lung Disease*, 16(7): 857-859.

Brehm, J.H., Koontz, D., Wallis, L., Shutt, K., Sanne, I., Wood, R., McIntyre, J., Stevens, W.S., Sluis-Cremer, N. and Mellors, J.W. 2012. Frequent emergence of N3481 in HIV-1 subtype C reverse transcriptase with failure of initial therapy reduces susceptibility to reverse-transcriptase inhibitors. *Clinical Infectious Diseases*, 55(5): 737-745.

Bryer, A. 2012. New antithrombotic drugs: a revolution in stroke management. *Cardiovascular Journal of Africa*, 23(2): 61-62.

Bucci, M., Borra, R., Nagren, K., Parkka, J.P., Del Ry, S., Maggio, R., Tuunanen, H., Viljanen, T., Cabiati, M., Rigazio, S., Taittonen, M., Pagotto, U., Parkkola, R., Opie, L.H., Nuutila, P., Knuuti, J. and Lozzo, P. 2012. Trimetazidine reduces endogenous free fatty acid oxidation and improves myocardial efficiency in obese humans. *Cardiovascular Therapeutics*, 30: 333-341.

Burdzik, A., Jeebhay, M.F. and Todd, G. 2012. Occupational dermatitis in food processing workers with a special focus on the seafood processing industry - a review. *Current Allergy & Clinical Immunology*, 25(2): 88-93.

Busse, W., Bleecker, E., Bateman, E.D., Lotvall, J., Forth, R., Davis, A.M., Jacques, L., Haumann, B. and Woodcock, A. 2012. Fluticasone furoate demonstrate efficacy in patients with asthma symptomatic on medium doses of inhaled corticosteroid therapy: an 8-week, randomised, placebo-controlled trial. *Thorax*, 67: 35-41.

Cappelletti, A., Latib, A., Mazzavillani, M., Magni, V., Calori, G., Colombo, A., and Margonato, A. The coronary artery risk factors and prognostic localization study, C. 2012. Severity and prognostic localization of critical coronary artery stenoses: correlation with clinical control of major traditional risk factors. *Coronary Artery Disease*, 23: 455-459.

Chantler, S., Dickie, K., Goedecke, J.H., Levitt, N.S., Lambert, E.V., Evans, J., Joffe, Y. and Micklesfield, L.K. 2012. Site-specific differences in bone mineral density in black and white premenopausal South African women. *Osteoporosis International*, 23: 533-542.

Chapman, R.E., Shephard, E.G., Stutz, H., Douglass, N., Sambandamurthy, V., Garcia, I., Ryffel, B., Jacobs, W. and Williamson, A.-L. 2012. Priming with a recombinant pantothenate auxotroph of mycobacterium bovis BCG and boosting with MVA elicits HIV-1 gag specific CD8+ T Cells. *PLoS One*, 7(3): e32769.

Chellan, P., Land, K.M., Shokar, A., Au, A., An, S.H., Clavel, C.M., Dyson, P.J., De Kock, C., Smith, P.J., Chibale, K. and Smith, G.S. 2012. Exploring the versatility of cycloplatinated thiosemicarbazones as antitumour and antiparasitic agents. *Organometallics*, 31: 5791-5799.

Chigutsa, E., Meredith, S.A., Wiesner, J.L., Padayatchi, N., Harding, J., Moodley, P., Mac Kenzie, W.R., Weiner, M., McIlleron, H. and Kirkpatrick, C.M.J. 2012. Population pharmacokinetics and pharmacodynamics of ofloxacin in South African patients with multidrug-resistant tuberculosis. *Antimicrobial Agents and Chemotherapy*, 56(7): 3857-3863.

Chin, A., Badri, M., Ntusi, N. and Okreglicki, A.M. 2012. The clinical, electrocardiographic and echocardiographic characteristics and long-term outcome of patients with tachycardia-induced cardiomyopathy. *Cardiovascular Journal of Africa*, 23(3): 136-142.

Chockalingram, P., Crotti, L., Girardengo, G., Johnson, J.N., Harris, K.M., Van der Heijden, J., Hauer, R.N., Spazzolini, C., Rordorf, R., Rydberg, A., Clur, S.A.B., Fischer, M., Van den Heuvel, F., Kaab, S., Blom, N.A., Ackerman, M.J., Schwartz, P.J. and Wilde, A.A.M. 2012. Not all beta blockers are equal in the management of long QT syndrome types 1 and 2. *Journal of the American College of Cardiology*, 60: 2092-2099.

Chopera, D., Cotton, L...A., Zawaira, A., Mann, J...K., Ngandu, N., Ntale, R., Carlson, J.M., Mlisana, K., Woodman, Z.L., de Assis Rosa, D., Martin, E., Miura, T., Pereyra, F., Walker, B.D., Gray, C., Martin, D.P., Ndungu, T., Brockman, M.A., Abdool-Karim, S., Brumme, Z.L., Williamson, C. and Caprisa 002 Acute Infection Study Team, C.a.p.r.i.s.a. 2012. Intersubtype differences in the effect of a rare p24 gag mutation on HIV-1 replicative fitness. *Journal of Virology*, 86 (24): 13423-13433.

Chukwujekwu, J.C., De Kock, C., Smith, P.J., van Heerden, F. and Van Staden, J. 2012. Antiplasmodial and antibacterial activity of compounds isolated from *ormocarpum trichocarpum*. *Planta Medica*, 78: 1857-1860.

Cloete, T.T., Breytenbach, W.J., De Kock, C., Smith, P.J., Breytenbach, J.C. and N'Da, D.D. 2012. Synthesis, antimalarial activity and cytotoxicity of 10-aminoethylether derivatives of artemisinin. *Bioorganic & Medicinal Chemistry*, 20: 4701-4709.

Conesa-Botella, A., Meintjes, G., Coussens, A.K., van Der Plas, H., Goliath, R., Schutz, C., Moreno-Reyes, R., Mehta, M., Martineau, A., Wilkinson, R.J., Colebunders, R. and Wilkinson, K. 2012. Corticosteroid therapy, vitamin D status, and inflammatory cytokine profile in the HIV-tuberculosis immune reconstitution inflammatory syndrome. *Clinical Infectious Diseases*, 55(7): 1004-1011.

Cornell, M., Schomaker, M., Garone, D., Giddy, J., Hoffmann, C.J., Lessells, R., Maskew, M., Prozesky, H., Wood, R., Johnson, L.F., Egger, M., Boule, A.M. and Myer, L. 2012. Gender differences in survival among adult patients starting antiretroviral therapy in South Africa: a multicentre cohort study. *Plos Medicine*, 9(9): e1001304.

Crotti, L., Marcou, C.A., Tester, D.J., Castelletti, S., Giudicessi, J.R., Torchio, M., Medeiros-Domingo, A., Simone, S., Will, M.L., Dagradi, F., Schwartz, P.J. and Ackerman, M.J. 2012. Spectrum and prevalence of mutations involving BrS1- though BrS12 - susceptibility genes in a cohort of unrelated patients referred for brugada syndrome genetic testing. *Journal of the American College of Cardiology*, 60(15): 1410-1418.

Crotti, L., Hu, D., Barajas-Martinez, H., De Ferrari, G.M., Oliva, A., Insolia, R., Pollevick, G.D., Dagradi, F., Guerchicoff, A., Greco, F., Schwartz, P.J. and Viskin, S. 2012. Torsades de pointes following acute myocardial infarction: evidence for a deadly link with a common genetic variant. *Heart Rhythm*, 9: 1104-1112.

Crotti, L., Spazzolini, C., Porretta, A.P., Dagradi, F., Taravelli, E., Petracci, B., Vicentini, A., Pedrazzini, M., La Rovere, M.T., Vanoli, E., Goosen, A., Heradien, M., George Jr, A.L., Brink, P. and Schwartz, P.J.

2012. Vagal reflexes following an exercise stress test: a simple clinical tool for gene-specific risk satisfaction in the long QT syndrome. *Journal of the American College of Cardiology*, 60(24): 2515-2524.

Crotti, L. and Schwartz, P.J. 2012. When genetic screening for your patient with long QT syndrome comes back negative, don't always take a no for a no. *Heart Rhythm*, 9(12): 1983-1985.

Damasceno, A., Mayosi, B.M., Sani, M., Ogah, O.S., Mondo, C., Ojji, D., Dzudie, A., Kauam, C., Suliman, A., Schreuder, N., Yonga, G., Ba, S.A., Maru, F., Alemayehu, B., Edwards, C., Davison, B.A., Cotter, G. and Sliwa, K. 2012. The causes, treatment, and outcome of acute heart failure in 1006 Africans from 9 countries. *Archives of Internal Medicine*, 172(18): 1386-1394.

Dandara, C., Scott, C., Urban, M., Fieggen, K., Arendse, R. and Beighton, P. 2012. Confirmation of the recurrent ACVRI 617G> a mutation in South Africans with fibrodysplasia ossificans progressiva. *SAMJ South African Medical Journal*, 102(7): 631-633.

Davidavicius, G., Godino, C., Shannon, J., Takagi, K., Bertoldi, L., Mussardo, M., Chieffo, A., Arioli, F., Ielasi, A., Montorfano, M., Latib, A. and Colombo, A. 2012. Incidence of overall bleeding in patients treated with intra-aortic balloon pump during percutaneous coronary intervention. *Journal of the American College of Cardiology*, 5(3): 350-357.

Davids, V., Blackhurst, D.M., Katz, A.A. and Harley, E.H. 2012. Origins and function of 3-ribosylurate in bovid erythrocytes. *Veterinary Journal*, 192: 326-332.

Davies, M., Boulle, A.M., Technau, K., Eley, B.S., Moultrie, H., Rabie, H., Garone, D., Giddy, J., Wood, R., Egger, M. and Keiser, O. 2012. The role of targeted viral load testing in diagnosing virological failure in children on antiretroviral therapy with immunological failure. *Tropical Medicine & International Health*, 17(11): 1386-1390.

Decloedt, E.H., Maartens, G., Smith, P.J., Merry, C., Bango, F. and McIlleron, H. 2012. The safety, effectiveness and concentrations of adjusted lopinavir/ritonavir in HIV-infected adults on rifampicin-based antitubercular therapy. *PLoS One*, 7(3): e32173.

Deetlefs, E., Epstein, D., Watermeyer, G., Seggie, R.M. and Thomson, S.R. 2012. Tuberculosis in an inflammatory bowel disease cohort from South Africa. *SAMJ South African Medical Journal*, 102(10): 802-804.

Dheda, K. and Migliori, G.B. 2012. The global rise of extensively drug-resistant tuberculosis: is the time to bring back sanatoria now overdue? *Lancet*, 379: 773-775.

Diacon, A., Dawson, R., von Groote-Bidlingmaier, F., Symons, G.J., Venter, A., Donald, P.R., van Niekerk, C., Everitt, D., Winter, H., Becker, P., Mendel, C.M. and Spigelman, M.K. 2012. 14-day bacterial activity of PA-824, bedaquiline, pyrazinamide, and moxifloxacin combinations: a randomised trial. *Lancet*, 380: 986-993.

Diacon, A., Dawson, R., du Bois, J., Narunsky, K., Venter, A., Donald, P.R., van Niekerk, C., Erond, N., Ginsberg, A.M., Becker, P. and Spigelman, M.K. 2012. Phase II dose-ranging trial of the early bactericidal activity of PA-824. *Antimicrobial Agents and Chemotherapy*, 56(6): 3027-3031.

Diacon, A., Maritz, S.J., Venter, A., Van Helden, P., Dawson, R. and Donald, P.R. 2012. Time to liquid culture positivity can substitute for colony counting on agar plates in early bactericidal activity studies of antituberculosis agents. *Clinical Microbiology and Infection*, 18: 711-717.

Dimatelis, J., Pillay, N., Mutyaba, A., Russell, V.A., Daniels, W.M.U. and Stein, D.J. 2012. Early maternal separation leads to down-regulation of cytokine gene expression. *Metabolic Brain Disease*, 27: 393-397.

Dlamini, S.K. and Mendelson, M. 2012. Atypical pneumonia in adults in Southern Africa. *South African Family Practice*, 54(4): 286-297.

Dubuis, L., Avril, S., Debayle, J. and Badel, P. 2012. Patient-specific numerical model of soft tissues in the compressed leg: application to six subjects. *Computer Methods In Biomechanics And Biomedical Engineering*, 15(S1): 44-45.

Duncan, K., Schafer, G., Vava, A., Parker, M.I. and Zerbini, L.F. 2012. Targeting neddylation in cancer therapy. *Future Oncology*, 8(11): 1461-1470.

Echouffo-Tcheugui, J.B., Dzudie, A., Epacka, M.E., Choukem, S.P., Doualla, M.S., Luma, H. and Kengne, A.P. 2012. Prevalence and determinants of undiagnosed diabetes in an urban sub-Saharan African population. *Primary Care Diabetes*, 6: 229-234.

Echouffo-Tcheugui, J.B. and Kengne, A.P. 2012. Risk models to predict chronic kidney disease and its progression: a systematic review. *PLoS One*, 9(11): e1001344.

Echouffo-Tcheugui, J.B., Mayige, M., Ogbera, A.O., Sobngwi, E. and Kengne, A.P. 2012. Screening for hyperglycemia in the developing world: rationale, challenges and opportunities. *Diabetes Research and Clinical Practice*, 98: 199-208.

Ehrlich, R.I., Woolf, D.C. and Kibel, D.A. 2012. Disulfiram reaction in an artist exposed to solvents. *Occupational Medicine-Oxford*, 62: 64-66.

Epstein, D., Mistry, K., Whitelaw, A.C., Watermeyer, G. and Pettengell, K.E. 2012. The effect of physiological concentration of bile acids on the in vitro growth of mycobacterium tuberculosis. *SAMJ South African Medical Journal*, 102(6): 522-524.

Esmail, H., Barry 3rd, C.E. and Wilkinson, R.J. 2012. Understanding latent tuberculosis: the key to improved diagnostic and novel treatment strategies. *Drug Discovery Today*, 17(9/10): 514-521.

Estill, J., Aubriere, C., Egger, M., Johnson, L.F., Wood, R., Garone, D., Gsponer, T., Wandeler, G., Boule, A.M., Davies, M., Hallett, T.B. and Keiser, O. 2012. Viral load monitoring of antiretroviral therapy, cohort viral load and HIV transmission in southern Africa: a mathematical modelling analysis. *Aids*, 26: 1403-1413.

Fairall, L., Bachmann, M.O., Lombard, C., Timmerman, V., Uebel, K., Zwarenstein, M., Boule, A.M., Georgeu, D., Colvin, C., Lewin, S.A., Faris, G.F., Cornick, R.V., Draper, B., Tshabalala, M., Kotze, E., Van Vuuren, C., Steyn, D., Chapman, R. and Bateman, E.D. 2012. Task shifting of antiretroviral treatment from doctors to primary-care nurses in South Africa: a pragmatic, parallel, cluster-randomised trial. *Lancet*, 380: 889-898.

Fatti, G., Meintjies, G., Shea, J., Eley, B.S. and Grimwood, A. 2012. Improved survival and antiretroviral treatment outcomes in adults receiving community-based adherence support: 5-year results from a multicentre cohort study in South Africa. *Jacids-Journal of Acquired Immune Deficiency Syndromes*, 61(4): e50-e58.

Fox, M.P., Van Custem, G., Giddy, J., Maskew, M., Keiser, O., Prozesky, H., Wood, R., Hernan, M., Sterne, J.A.C., Egger, M. and Boulle, A.M. 2012. Rates and predictors of failure of first-line antiretroviral therapy and switch to second-line art in South Africa. *J AIDS-Journal of Acquired Immune Deficiency Syndromes*, 60(4): 428-437.

Freercks, R., Swanepoel, C.R., Carrara, H., Moosa, S.E., Lachman, A. and Rayner, B.L. 2012. Vascular calcification in South African dialysis patients: ethnic variation, prevalence, detection and haemodynamic correlates. *Nephrology*, 17: 607-615.

Gabriels, G.A., Lambert, M.I. and Smith, P.J. 2012. Information on nutritional supplement labels: time for legislation. *South African Journal of Clinical Nutrition*, 25(1): 22-26.

Georgeu, D., Colvin, C.J., Lewin, S., Fairall, L., Bachmann, M.O., Uebel, K., Zwarenstein, M., Draper, B. and Bateman, E.D. 2012. Implementing nurse-initiated and managed antiretroviral treatment (NIMART) in South Africa: a qualitative process evaluation of the stretch trial. *Implementation Science*, 7:66.

Gideon, H., Wilkinson, K., Rustad, T.G., Oni, T., Guio, H., Sherman, D.R., Vordermeier, H., Robertson, B.D., Young, D.B. and Wilkinson, R.J. 2012. Bioinformatic and empirical analysis of novel hypoxia-inducible targets of the human antituberculosis t cell response. *Journal of Immunology*, 189: 5867-5876.

Glans, L., Ehnbohm, A., De Kock, C., Martinez, A., Estranda, J., Smith, P.J., Haukka, M., Sanchez-Delgado, R.A. and Nordlander, E. 2012. Ruthenium(II) arene complexes with chelating chloroquine analogue ligands: synthesis, characterization and in vitro antimalarial activity. *Dalton Transactions*, 41: 2764-2773.

Glans, L., Hu, W., Jost, C., De Kock, C., Smith, P.J., Haukka, M., Bruhn, H., Schatzschneider, U. and Nordlander, E. 2012. Synthesis and biological activity of cymantrene and cyrhetrene 4 -aminoquinoline conjugates against malaria, leishmaniasis, and trypanosomiasis. *Dalton Transactions*, 41: 6443-6450.

Gnecchi, M. and Schwartz, P.J. 2012. The unstoppable attraction for induced pluripotent stem cells. *Journal of the American College of Cardiology*, 60(11): 1001-1004.

Graves, R.R. and Burch, V. 2012. Socks: launching education innovations on a firm footing. *Medical Education*, 46: 1099-1136.

Graziose, R., Rojas-Silva, P., Rathinasabapathy, T., De Kock, C., Grace, M.H., Poulev, A., Lila, M.A., Smith, P.J. and Raskin, I. 2012. Antiparasitic compounds from *Cornus florida* L. with activities against *Plasmodium falciparum* and *Leishmania tarentolae*. *Journal of Ethnopharmacology*, 142: 456-461.

Smith, D., Bryer, A., Watson, L. and Greenberg, J. 2012. Inherited polyglutamine spinocerebellar ataxias in South Africa. *SAMJ South African Medical Journal*, 102(8): 683-686.

Gupta, A., Wood, R., Kaplan, R., Bekker, L. and Lawn, S.D. 2012. Tuberculosis incidence rates during 8 years of follow-up of an antiretroviral treatment cohort in South Africa: comparison with rates in the community. *PLoS One*, 7(3): e34156.

Hanekom, W.A., Hawkrigde, A.J., Mahomed, H., Scriba, T.J., Tameris, M.D., Hughes, J., Hatherill, M., Day, C. and Hussey, G.D. 2012. Satvi - after 10 years closing in on a new and better vaccine to prevent tuberculosis. *SAMJ South African Medical Journal*, 102(6): 438-441.

Hanlyn, E., Hickling, S., Porter, K., Frater, J., Phillips, R., Robinson, M., Mackie, N.E., Kaye, S., McClure, M., Filder, S., Wood, R., Pitt, J.A., Orrell, C., Cilliers, C., Croxford, R., Middelkoop, K., Bekker, L., Heiberg, C., Aploon, J., Killa, N.J., Fielder, E. and Buhler, T.C. 2012. Increased levels of CD4 T-cell activation in individuals with CXCR4 using viruses in primary HIV-1 infection. *AIDS*, 26: 887896.

Harding, R., Selman, L., Agupio, G., Dinat, N., Downing, J., Gwyther, E., Mashao, T., Mmoledi, K., Moll, T., Mpanga S., L., Ikin, B. and Higginson, I. 2012. Prevalence, burden, and correlates of physical and psychological symptoms among HIV palliative care patients in sub-Saharan Africa: an international multicenter study. *Journal of Pain and Symptom Management*, 44(1): 1-9.

Harries, A.D., Lawn, S.D., Getahun, H., Zachariah, R. and Havlir, D. 2012. HIV and tuberculosis - science and implementation to turn the tide and reduce deaths. *Journal of the International AIDS Society*, 15: 17396.

Hartman, N., Kathard, H., Perez, G., Reid, S., Irlam, J.H., Gunston, G.D., Janse van Rensburg, V.C., Burch, V.C., Duncan, E.M., Hellenberg, D.A., Van Rooyen, I.W., Smouse, M.R., Sikakana, C.N.T., Badenhorst, E.S. and Ige, B. 2012. Health sciences undergraduate education at University of Cape Town: a story of transformation. *SAMJ South African Medical Journal*, 102(6): 477-480.

Heckmann, J.M., Hansen, P., van Toorn, R., Lubbe, E., van Rensburg, E.J. and Wilmshurst, J. 2012. The characteristics of juvenile myasthenia gravis among South Africans. *SAMJ South African Medical Journal*, 102(6): 532-536.

Helgadottir, A., Gretarsdottir, S., Thorleifsson, G., ... Mayosi, B.M. *et al.* 2012. Apolipoprotein(a) genetic sequence variants associated with systemic atherosclerosis and coronary atherosclerotic burden but not with venous thromboembolism. *Journal of the American College of Cardiology*, 60(8): 722-729.

Hendrik, S.H., Sudano, I., Theus, G., Noll, G. and Burnier, M. 2012. Target blood pressure attainment with antihypertensive therapy in Swiss primary care. *Blood Pressure*, 21(4): 211-219.

Herrmann, C., Salas, P.F., Cawthray, J.F., De Kock, C., O Patrick, B., Smith, P.J., Adam, M.J. and Orvig, C. 2012. 1,1'-Disubstituted ferrocenyl carbohydrate chloroquine conjugates as potential antimalarials. *Organometallics*, 31: 5736-5747.

Herrmann, C., Salas, P.F., O Patrick, B., De Kock, C., Smith, P.J., Adam, M.J. and Orvig, C. 2012. 1,2-Disubstituted ferrocenyl carbohydrate chloroquine conjugates as potential antimalarial agents. *Dalton Transactions*, 41: 6431-6442.

Herrmann, C., Salas, P.F., O Patrick, B., De Kock, C., Smith, P.J., Adam, M.J. and Orvig, C. 2012. Modular synthesis of 1,2- and 1,1'-disubstituted ferrocenyl carbohydrate chloroquine and mefloquine conjugates as potential antimalarial agents. *Organometallics*, 31: 5748-5759.

Holgate, S.L., Rabie, H., Smith, P. and Cotton, M. 2012. Trough lopinavir concentrations in preterm HIV-infected infants. *Pediatric Infectious Disease Journal*, 31(6): 602-604.

Howard, A., Gasana, M., Getahun, H., Harries, A.D., Lawn, S.D., Miller, B., Nelson, L., Sitienei, J. and Coggin, W.L. 2012. PEPFAR support for the scaling up of collaborative TB/HIV activities. *Jacids-Journal of Acquired Immune Deficiency Syndromes*, 60(3): S136-S144.

Hu, D., Barajas-Martinez, H., Medeiros-Domingo, A., Crotti, L., Veltmann, C., Schimpf, R., Urrutia, J., Alday, A., Casis, O., Pfeiffer, R., Burashnikov, E., Caceres, G., Tester, D.J., Wolpert, C., Borggreffe, M.,

Schwartz, P.J., Ackerman, M.J. and Antzelevitch, C. 2012. A novel rare variant in SCN1Bb linked to Brugada syndrome and SIDS by combined modulation of Nav1.5 and Kv4.3 channel currents. *Heart Rhythm*, 9(5): 760-769.

Huisamen, B., Dietrich, D., Bezuidenhout, N., Lopes, J., Flepisi, B., Blackhurst, D.M. and Lochner, A. 2012. Early cardiovascular changes occurring in diet-induced, obese insulin-resistant rats. *Molecular and Cellular Biochemistry*, 368: 37-45.

Isaacs, T. 2012. Skin hypersensitivity reactions to preservatives. *Current Allergy & Clinical Immunology*, 25(1): 41-45.

Ishikawa, T., Sato, A., Marcou, C.A., Tester, D.J., Ackerman, M.J., Crotti, L., Schwartz, P.J., On, Y.K., Park, J.E., Nakamura, K., Hiraoka, M., Nakazawa, K., Sakurada, H., Arimura, T., Makita, N. and Kimura, A. 2012. A novel disease gene for Brugada syndrome: sarcolemmal membrane-associated protein gene mutations impair intracellular trafficking of hNav1.5. *Circulation-Arrhythmia and Electrophysiology*, 5: 1098-1107.

Jackson, A., Nussbaum, J.C., Phulusa, J., Namarika, D., Chikasema, M., Kanyemba, C., Jarvis, J.N., Jaffar, S., Hosseinipour, M., van der Horst, C. and Harrison, T. 2012. A phase II randomized controlled trial adding oral flucytosine to high - dose fluconazole, with short-course amphotericin B, for cryptococcal meningitis. *Aids*, 26: 1363-1370.

James, R.W., Frias, M.A. and Lecour, S. 2012. Lipid-induced modulation of protective signalling pathways in cardiovascular disease: the role of high density lipoproteins. *Current Signal Transduction Therapy*, 7(2): 96-103.

Jarvis, J.N., Meintjes, G., Rebe, K., Williams, G.M., Bicanic, T., Williams, A., Schutz, C., Bekker, L., Wood, R. and Harrison, T. 2012. Adjunctive interferon- immunotherapy for the treatment of HIV-associated cryptococcal meningitis: a randomized controlled trial. *Aids*, 26: 1105-1113.

Jones, E., Owen, P. and Rayner, B.L. 2012. The association of the R563Q genotype of the ENaC with phenotypic variation in Southern Africa. *American Journal of Hypertension*, 25(12): 1286-1291.

Jones, P.W., Singh, D., Bateman, E.D., Agusti, A., Lamarca, R., de Miquel, G., Segarra, R., Caracta, C. and Gil, E.G. 2012. Efficacy and safety of twice-daily acclidinium bromide in COPD patients: the ATTAIN study. *European Respiratory Journal*, 40(4): 830-836.

Karthikeyan, G., Zuhlke, L., Engel, M.E., Rangarajan, S., Yusuf, S., Teo, K. and Mayosi, B.M. 2012. Rationale and design of a global rheumatic heart disease registry: the remedy study. *American Heart Journal*, 163: 535-540.

Kaze, F.F., Ashuntantang, G., Kengne, A.P., Hassan, A., Halle, M.P. and Muna, W. 2012. Acute hemodialysis complications in end-stage renal disease patients: the burden and implications for the under-resourced Sub-Saharan African health systems. *Hemodialysis International*, 16: 526-531.

Kengne, A.P., Ntyintyane, L. and Mayosi, B.M. 2012. A systematic overview of prospective cohort studies of cardiovascular disease in sub-Saharan Africa. *Cardiovascular Journal of Africa*, 23(2): 103-112.

Kengne, A.P., Czernichow, S., Hamer, M., Batty, D. and Stamatakis, E. 2012. Anaemia, haemoglobin level and cause - specific mortality in people with and without diabetes. *PLoS One*, 7(8): e41875.

Kengne, A.P., Batty, D., Hamer, M., Stamatakis, E. and Czernichow, S. 2012. Association of C-reactive protein with cardiovascular disease mortality according to diabetes status. *Diabetes Care*, 35: 396-403.

Kengne, A.P., Czernichow, S., Stamatakis, E., Hamer, M. and Batty, D. 2012. Gamma-glutamyltransferase and risk of cardiovascular disease mortality in people with and without diabetes: pooling of three British health surveys. *Journal of Hepatology*, 57: 1083-1089.

Kengne, A.P., Limen, S.N., Sobngwi, E., Djouogo, C.F.T. and Nouedoui, C. 2012. Metabolic syndrome in type 2 diabetes: comparative prevalence according to two sets of diagnostic criteria in sub-Saharan Africans. *Diabetology & Metabolic Syndrome*, 22(4): 1-8.

Kenyon, C., Mfolozi, S., Croxford, R., Colebunders, R. and Cohen, K. 2012. Severe efavirenz-induced vacuolar axonopathy complicated by fatal aspiration pneumonia. *British Journal of Clinical Pharmacology*, 74(6): 1070-1072.

Kenyon, C., Schreuder, N., Ntsekhe, M. and Meintjes, G. 2012. Heart failure and cardiogenic shock associated with the TB-immune reconstitution inflammatory syndrome. *Cardiovascular Journal of Africa*, 23(3): e14-e17.

Kenyon, C., Fatti, G., Schreuder, N., Bonorchis, K. and Meintjes, G. 2012. The value of blood culture audits at peripheral hospitals. *SAMJ South African Medical Journal*, 102(4): 224-225.

Kenyon, C. and Colebunders, R. 2012. What is the optimal first line antiretroviral therapy in resource-limited settings? *Plos Medicine*, 9(8): e1001291.

Kerkhoff, A., Kranzer, K., Samandari, T., Nakiyingi-Miir, J., Whalen, C.C., Harries, A.D. and Lawn, S.D. 2012. System review of TST responses in people living with HIV in under-resourced settings: implications for isoniazid preventive therapy. *PLoS One*, 7(11): e49928.

Kerstjens, H.A.M., Engel, M., Dahl, R., Paggiaro, P., Beck, E., Vandewalker, M., Sigmund, R., Seibold, W., Moroni-Zentgraf, P. and Bateman, E.D. 2012. Tiotropium in asthma poorly controlled with standard combination therapy. *New England Journal of Medicine*, 367: 1198-1207.

Kew, M.C. 2012. Hepatitis B virus / human immunodeficiency virus co-infection and its hepatocarcinogenic potential in Sub-Saharan black Africans. *Hepatitis Monthly*, 12: e7876.

Khumalo, N. and Gumedze, F.N. 2012. The adapted classification of male pattern hair loss improves reliability. *Dermatology*, 225(2):110-114.

Khumalo, N. and Gumedze, F.N. 2012. Traction: risk factor or coincidence in central centrifugal cicatricial alopecia? *British Journal of Dermatology*, 167(5): 1191-1193.

Kimmel, A.D., Daniels, N., Betancourt, T., Wood, R. and Prosser, L.A. 2012. Decision maker priorities for providing antiretroviral therapy in HIV-infected South Africans: a qualitative assessment. *Aids Care*, 24(6): 778-792.

Kranzer, K., Lawn, S.D., Meyer-Rath, G., Vassall, A., Radithalo, E., Govindasamy, D., Van Schaik, N., Wood, R. and Bekker, L. 2012. Feasibility, yield, and cost of active tuberculosis case finding linked to a mobile HIV science in Cape Town, South Africa: a cross-sectional study. *PLoS One*, 9(8): e1001281.

Kranzer, K., Govindasamy, D., Van Schaik, N., Thebus, L., Davies, N., Zimmerman, M.A., Jeneker, S., Lawn, S.D., Wood, R. and Bekker, L. 2012. Incentivized recruitment of a population sample to a mobile HIV testing service increases the yield of newly diagnosed cases, including those in need of antiretroviral therapy. *HIV Medicine*, 13: 132-137.

Lamont, K., Blackhurst, D.M., Albertyn, Z., Marais, A.D. and Lecour, S. 2012. Lowering the alcohol content of red wine does not alter its cardioprotective properties. *SAMJ South African Medical Journal*, 102(6): 565-567.

Langat, M.K., Crouch, N., Pohjala, L., Tammela, P., Smith, P.J. and Mulholland, D.A. 2012. Ent-kauren-19-oic acid derivatives from the stem bark of *croton pseudopulchellus pax*. *Phytochemistry Letters*, 5: 414-418.

Langhorne, P., De Villiers, L. and Pandian, J.D. 2012. Applicability of stroke-unit care to low-income and middle income countries. *Lancet Neurology*, 11: 341-348.

Latib, A., Colombo, A., Castriota, F., Micari, A., Cremonesi, A., De Felice, F., Marchese, A., Tespili, M., Presbitero, P., Sgueglia, G.A., Buffoli, F., Tamburino, C., Varbella, F. and Menozzi, A. 2012. A randomized multicenter study comparing a paclitaxel-eluting stent in small coronary vessels. *Journal of the American College of Cardiology*, 60(24): 2473-2480.

Latib, A., Montorfano, M., Figini, F., Maisano, F., Chieffo, A., Benussi, S., Bellanca, R., Gerli, C., Spagnolo, P., Alfieri, O. and Colombo, A. 2012. Percutaneous valve replacement in a young adult for radiation-induced aortic stenosis. *Journal of Cardiovascular Medicine*, 13: 397-398.

Latib, A., Maisano, F., Bertoldi, L., Giacomini, A., Shannon, J., Cioni, M., Ielasi, A., Figini, F., Tagaki, K., Franco, A., Covello, R.D., Grimaldi, A., Spagnolo, P., Buchanan, G.L., Carlino, M., Chieffo, A., Montorfano, M., Alfieri, O. and Colombo, A. 2012. Transcatheter vs surgical aortic valve replacement in intermediate-surgical-risk patients with aortic stenosis: a propensity score-matched case-control study. *American Heart Journal*, 164: 910-917.

Latka, M.H., Fielding, K.L., Gray, G., Bekker, L., Nchabeleng, M., Mlisana, K., Nielson, T., Roux, S.M., Mkhize, B., Mathebula, M., Naicker, N., de Bruyn, G., Kublin, J.G. and Churchyard, G.J. 2012. Pregnancy incidence and correlates during the HVTN 503 phambili HIV vaccine trial conducted among South African Women. *PLoS One*, 7(4): e31387(1).

Lawn, S.D. 2012. Point-of-care detection of lipoarabinomannan (LAM) in urine for diagnosis of HIV-associated tuberculosis: a state of the art review. *BMC Infectious Diseases*, 12:103.

Lawn, S.D. and Zumla, A. 2012. Diagnosis of extrapulmonary tuberculosis using the Xpert MTB/RIF assay. *Expert Review of Anti-Infective Therapy*, 10(6): 631-635.

Lawn, S.D., Harries, A.D., Meintjes, G., Getahun, H., Havlir, D. and Wood, R. 2012. Reducing deaths from tuberculosis in antiretroviral treatment programmes in sub-Saharan Africa. *AIDS*, 26(17): 2121-2133.

Lawn, S.D., Kerkhoff, A., Pahlana, P., Vogt, M.C. and Wood, R. 2012. Diagnostic yield of tuberculosis using sputum induction in HIV-positive patients before antiretroviral therapy. *International Journal of Tuberculosis and Lung Disease*, 16(10): 1354-1357.

Lawn, S.D., Kerkhoff, A., Vogt, M.C. and Wood, R. 2012. Clinical significance of lipoarabinomannan detection in urine using a low-cost point-of-care diagnostic assay for HIV-associated tuberculosis. *AIDS*, 26: 1635-1643.

Lawn, S.D., Kerkhoff, A., Vogt, M.C. and Wood, R. 2012. Diagnostic accuracy of a low-cost, urine antigen, point-of-care screening assay for HIV-associated pulmonary tuberculosis before antiretroviral therapy: a descriptive study. *Lancet Infectious Diseases*, 12: 201-209.

Lawn, S.D., Kerkhoff, A., Vogt, M.C. and Wood, R. 2012. High diagnostic yield of tuberculosis from screening urine samples from HIV-infected patients with advanced immunodeficiency using the xpert MTB/RIF assay. *Jacids-Journal of Acquired Immune Deficiency Syndromes*, 60: 289-294.

Lawn, S.D., Kerkhoff, A., Vogt, M.C., Ghegrekristos, Y., Whitelaw, A.C. and Wood, R. 2012. Characteristics and early outcomes of patients with Xpert MTB/RIF-negative pulmonary tuberculosis diagnosed during screening before antiretroviral therapy. *Clinical Infectious Diseases*, 54(8): 1071-1079.

Lehloeny, R.J., Wallace, J., Todd, G. and Dheda, K. 2012. Multiple drug hypersensitivity reactions to anti-tuberculosis drugs: five cases in HIV-infected patients. *International Journal of Tuberculosis and Lung Disease*, 16(9): 1260-1264.

Lekoubou, A., Kengne, A.P., Fezeu, L. and Mbanya, J.C. 2012. Determinants of active convulsive epilepsy in rural Cameroon: a population based case-control study. *Neurological Research*, 34(2): 159-162.

Levin, D.A., Watermeyer, G., Deetlefs, E., Metz, D.C. and Thomson, S.R. 2012. The efficacy of endoscopic therapy in bleeding peptic ulcer patients. *SAMJ South African Medical Journal*, 102(5): 290-293.

Levison, J.H., Orrell, C., Gallien, S., Kuritzkes, D.R., Fu, N., Losina, E., Freedberg, K.A. and Wood, R. 2012. Virologic failure of protease inhibitor-based second-line antiretroviral therapy without resistance in a large HIV treatment program in South Africa. *PLoS One*, 7(3): e32144.

Lombard, M.C., N'Da, D.D., Breytenbach, J.C., Kolesnikova, N.I., Tran Van Ba, C., Wein, S., Norman, J.J., Denti, P., Vial, H. and Wiesner, L. 2012. Antimalarial and anticancer activities of artemisinin-quinoline hybrid-dimers and pharmacokinetic properties in mice. *European Journal of Pharmaceutical Sciences*, 47: 834-841.

Lorenzana, S.B., Hughes, M., Grinsztejn, B., Collier, A., Luz, P.M., Freedberg, K.A., Wood, R., Levison, J.H., Mugenyi, P., Salata, R., Wallis, L., Weinstein, M., Schooley, R.T. and Walensky, R.P. 2012. Genotype assays and third-line ART in resource-limited settings: a simulation and cost-effectiveness analysis of a planned clinical trial. *Aids*, 26: 1083-1093.

Lotvall, J., Bateman, E.D., Bleecker, E., Busse, W., Woodcock, A., Follows, R., Lim, J., Stone, S., Jacques, L. and Haumann, B. 2012. 24-h duration of the novel LABA vilanterol trifenate in asthma patients treated with inhaled corticosteroids. *European Respiratory Journal*, 40(3): 570-579.

Lowe, D., Redford, P.S., Wilkinson, R.J., O'Garra, A. and Martineau, A. 2012. Neutrophils in tuberculosis: friend or foe? *Trends in Immunology*, 33(1): 14-25.

Loyse, A., Wilson, D., Meintjes, G., Jarvis, J.N., Bicanic, T., Bishop, L., Rebe, K.B., Williams, A., Jaffar, S., Bekker, L., Wood, R. and Harrison, T. 2012. Comparison of the early fungicidal activity of high-dose

fluconazole, voriconazole, and flucytosine as second-line drugs given in combination with amphotericin B for the treatment of HIV-associated cryptococcal meningitis. *Clinical Infectious Diseases*, 54(1): 121-128.

Lozano, R., Naghavi, M., Foreman, K., Lim, S., Shibuya, K., Aboyans, V., Abraham, J., Adair, T., Aggarwal, R., Ahn, S., Matzopoulos, R., Mayosi, B.M., Mensah, G. and Sliwa, K. 2012. Global and regional mortality from 235 causes of death for 20 age groups in 1990 and 2010: a systematic analysis for the global burden of disease study 2010. *Lancet*, 380: 2095-2128.

Luo, S., Ainslie, G.M., Pollini, D., Giragosian, L. and Monterosso, J.R. 2012. Moderators of the association between brain activation and farsighted choice. *Neuroimage*, 59: 1469-1477.

Maarman, G., Marais, E., Lochner, A. and du Toit, E.F. 2012. Effect of chronic CPT-1 inhibition on myocardial ischemia-reperfusion injury (I/R) in a model of diet-induced obesity. *Cardiovascular Drugs and Therapy*, 26: 205-216.

Macharia, M., Hassan, M.S., Blackhurst, D.M., Erasmus, R.T. and Matsha, T.E. 2012. The growing importance of PON1 in cardiovascular health: a review. *Journal of Cardiovascular Medicine*, 13: 443-453.

Maharaj, R., Geduld, H. and Wallis, L.A. 2012. Door-to-needle time for administration of fibrinolytics in acute myocardial infarction in Cape Town. *SAMJ South African Medical Journal*, 102(4): 241-244.

Mahler, D.A., D'Urzo, A., Bateman, E.D., Ozkan, S.A., White, T., Peckitt, C., Lassen, C. and Kramer, B. 2012. Concurrent use of indacaterol plus tiotropium in patients with COPD provides superior bronchodilation compared with tiotropium alone: a randomised, double-blind comparison. *Thorax*, 67: 781-788.

Mahomed, H. and Fourie, P.B. 2012. Clinical trials of TB vaccines: harmonization and cooperation. *Tuberculosis*, 92s1: S21-S24.

Marais, D., Blom, D., Petrides, F., Goueffic, Y. and Lambert, G. 2012. Proprotein convertase subtilisin/kexin type 9 inhibition. *Current Opinion in Lipidology*, 23: 511-517.

Mark, D., Middelkoop, K., Black, S., Roux, S.M., Fleur, L., Wood, R. and Bekker, L. 2012. Low acceptability of medical male circumcision as an HIV/AIDS prevention intervention within a South African community that practises traditional circumcision. *SAMJ South African Medical Journal*, 102(6): 571-573.

Mash, B., Fairall, L., Adejayan, O., Ikpefan, O., Kumari, J., Mathee, S., Okun, R. and Yogolelo, W. 2012. A morbidity survey of South African primary care. *PLoS One*, 7(3): e32358.

Mash, B., Levitt, N., Steyn, K., Zwarenstein, M. and Rollnick, S. 2012. Effectiveness of a group diabetes education programme in underserved communities in South Africa: pragmatic cluster randomized control trial. *BMC Family Practice*, 13:126.

Maspero, J.F., Lee, B.W., Katelaris, C.H., Potter, P.C., Cingi, C., Lopatin, A., Saffer, M., Nadeau, G. and Walters, R.D. 2012. Quality of life and control of allergic rhinitis in patients from regions beyond Western Europe and the United States. *Clinical and Experimental Allergy*, 42: 1684-1696.

Matsha, T.E., Masconi, K., Yako, Y.Y., Hassan, M.S., Macharia, M., Erasmus, T. and Kengne, A.P. 2012. Polymorphisms in the non-muscle myosin heavy chain gene (MYH9) are associated with lower glomerular filtration rate in mixed ancestry diabetic subjects from South Africa. *PLoS One*, 7(12): e52529.

Matthews, K., Ntsekhe, M., Syed, F., Scriba, T.J., Russell, J.B.W., Tibazarwa, K., Deffur, A., Hanekom, W.A., Mayosi, B.M., Wilkinson, R.J. and Wilkinson, K. 2012. HIV-1 infection alters CD4+ memory T-cell phenotype at the site of disease in extrapulmonary tuberculosis. *European Journal of Immunology*, 42: 147-157.

Mayer, K.H., Bekker, L., Stall, R., Grulich, A.E., Colfax, G. and Lama, J.R. 2012. Comprehensive clinical care for men who have sex with men: an integrated approach. *Lancet*, 380: 378-387.

Mayosi, B.M. and Forrester, T.E. 2012. Serum-cholesterol, diet, and coronary heart-disease in Africans and Asians in Uganda' by AG Shaper and KW Jones. *International Journal of Epidemiology*, 41: 1233-1235.

Mayosi, B.M., Lawn, J.E.L., van Niekerk, A., Bradshaw, D., Karim, S.S.A. and Coovadia, H. 2012. Health in South Africa: changes and challenges since 2009. *Lancet*, 380: 2029-2043.

Mbeunkui, F., Grace, M.H., Lategan, C.A., Smith, P.J., Raskin, I. and Lila, M.A. 2012. In vitro antiplasmodial activity of indole alkaloids from the stem bark of *Geissospermum vellosii*. *Journal of Ethnopharmacology*, 139: 471-477.

McIlleron, H., Rustomjee, r., Vahedi, M., Mthiyane, T., Denti, P., Connolly, C., Rida, W., Pym, A., Smith, P.J. and Onyebujoh, P.C. 2012. Reduced antituberculosis drug concentrations in HIV-infected patients who are men or have low weight: implications for international dosing guidelines. *Antimicrobial Agents and Chemotherapy*, 56(6): 3232-3238.

McNerney, R., Maeurer, M., Abubakar, I., Marais, B., McHugh, T., Ford, N., Weyer, K., Lawn, S.D., Grobusch, M.P., Memish, Z., B Squire, B., Pantaleo, G., Chakaya, J., Casenghi, M., Migliori, G.B., Mwaba, P., Zijenah, L., Hoelscher, M., Cox, H., Swaminathan, S., Kim, P., Schito, M., Harari, A., Bates, M., Schwank, S., O'Grady, J., Pletschette, M., Ditui, L., Atun, R. and Zumla, A. 2012. Tuberculosis diagnostics and biomarkers: needs, challenges, recent advances, and opportunities. *Journal of Infectious Diseases*, 205: S147-158.

Meintjes, G., Skolimowska, K., Wilkinson, K., Matthews, K., Tadokera, R., Conesa-Botella, A., Seldon, R.R., Rangaka, M.X., Rebe, K.B., Pepper, D.J., Morroni, C., Colebunders, R., Maartens, G. and Wilkinson, R.J. 2012. Corticosteroid-modulated immune activation in the tuberculosis immune reconstitution inflammatory syndrome. *American Journal of Respiratory and Critical Care Medicine*, 186(4): 369-377.

Meissner, P.N., Corrigan, A.V. and Hift, R. 2012. Fifty years of porphyria at the University of Cape Town. *SAMJ South African Medical Journal*, 102(6): 422-426.

Mendelson, M., Barday, Z., Eastman, R.W., Le Feuvre, D.E.J., Candy, S., Wu, H. and Swanepoel, C.R. 2012. Rapidly progressive post-transplant lymphoproliferative disease following withdrawal of sirolimus. *SAMJ South African Medical Journal*, 102(12): 924-928.

Meredith, S.A., Smith, P.J., Norman, J.J. and Wiesner, L. 2012. An LC-MS/MS method for the determination of ofloxacin in 20 1 human plasma. *Journal of Pharmaceutical and Biomedical Analysis*, 58: 177-181.

Metha, U., Clerk, C., Allen, E., Yore, M., Sevens, E., Singlovic, J., Petzold, M., Mangiaterra, V., Elefant, E., Sullivan, F.M., Holmes, L.B. and Gomes, M. 2012. Protocol for a drugs exposure pregnancy registry for implementation in resource-limited settings. *BMC Pregnancy and Childbirth*, 12:89.

Middelkoop, K., Bekker, L., Shashkina, E., Kreiswirth, B. and Wood, R. 2012. Retreatment tuberculosis in a South African community: the role of re-intection, HIV and antiretroviral treatment. *International Journal of Tuberculosis and Lung Disease*, 16(11): 1510-1516.

Migliori, G.B., Zellweger, J.P., Abubakar, I., Caminero, J.A., de Vries, G., D'Ambrosio, L., Centis, R., Sotgiu, G., Menegale, O., Kliiman, K., Aksamit, T., Cirillo, D.M., Danilovits, M., Dara, M., Dheda, K., Dinh-Xuan, A.T., Kluge, H., Lange, C., Leimane, V., Loddenkemper, R., Nicod, L.P., Raviglione, M.C., Spanevello, A., Thomsen, V.O., Villar, M., Wanlin, M., Wedzicha, J.A., Zumla, A., Blasi, F., Huitric, E., Sandgren, A. and Manissero, D. 2012. European union standards for tuberculosis care. *European Respiratory Journal*, 39(4): 807-819.

Mocumbi, A.O. and Sliwa, K. 2012. Women's cardiovascular health in Africa. *Heart*, 98: 450-455.

Montgomery, E.T., van der Straten, A., Cheng, H., Wegner, L., Masenga, G., von Mollendorf, C., Bekker, L., Ganesh, S., Young, K., Romano, J., Nel, A. and Woodsong, C. 2012. Vaginal ring adherence in Sub-Saharan Africa: expulsion, removal, and perfect use. *Aids and Behavior*, 16: 1787-1798.

Moons, K.G.M., Kengne, A.P., Grobbee, D.E., Royston, P., Vergouwen, Y., Altman, D.G. and Woodward, M. 2012. Risk prediction models: II. external validation, model updating, and impact assessment. *Heart*, 98: 691-698.

Moons, K.G.M., Kengne, A.P., Woodward, M., Royston, P., Vergouwen, Y., Altman, D.G. and Grobbee, D.E. 2012. Risk prediction models: I. development, internal validation, and assessing the incremental value of a new (bio)marker. *Heart*, 98: 683-690.

Morrow, C.D., Munro, A., Wilke, M., Stark, R. and Wood, R. 2012. Remote sensing of HIV care programme using centrally collected laboratory results: can we monitor ART programmes effectiveness. *SAMJ South African Medical Journal*, 102(6): 501-505.

Mosendane, T., Kew, M.C., Osih, R. and Mahomed, A. 2012. Nurses at risk for occupationally acquired blood-borne virus infection at a South African academic hospital. *SAMJ South African Medical Journal*, 102(3): 153-156.

Moyo, S., Verver, S., Hawkridge, A.J., Geiter, L., Hatherill, M., Workman, L.J., Ontong, C., Msemburi, W., Tameris, M.D., Geldenhuys, H.D., Mulenga, H., Snowden, M.A., Hanekom, W.A., Hussey, G.D., Mahomed, H. and the South African Tuberculosis Vaccine Initiative Neonatal Study Team, 2012. Tuberculosis case finding for vaccine trials in young children in high-incidence settings: a randomised trial. *International Journal of Tuberculosis and Lung Disease*, 16(2): 185-191.

Mufhandu, H.T., Gray, E.S., Madiga, M.C., Tumba, N.L., Alexandre, K.B., Khoza, T., Wibmer, C.K., Moore, P.L., Morris, L. and Khati, M. 2012. UCLA1, a synthetic derivative of a gp120 RNA aptamer, inhibits entry of human immunodeficiency virus type 1 subtype C. *Journal of Virology*, 86(9): 4989-4999.

Mulder, N.J., Burge, S., Lonsdale, D., Mutowo-Muellenet, P., McAnulla, C., Mitchell, A., Sangrador-Vegas, A., Yong, S., Kelly, E. and Hunter, S. 2012. Manual go annotation of predictive protein signatures: interpro approach to go curation. *database: the journal of biological databases and curation*, bar068.

Muller, E., Barday, Z., Mendelson, M. and Kahn, D. 2012. Renal transplantation between HIV-positive donors and recipients justified. *SAMJ South African Medical Journal*, 102(6): 497-498.

Murdoch-Eaton, D., Manning, D., Kwizera, E., Burch, V., Pell, G. and Whittle, S. 2012. Profiling undergraduates' generic learning skills on entry to medical school; an international study. *Medical Teacher*, 34: 1033-1046.

Murphy, R.A., Sunpath, H., Castilla, C., Ebrahim, S., Court, R.G., Nguyen, H., Kuritzkes, D.R., Marconi, V.C. and Nachega, J.B. 2012. Second-line antiretroviral therapy: long term outcomes in South Africa. *Jaids-Journal of Acquired Immune Deficiency Syndromes*, 61(2): 158-163.

Murray, C.J.L., Vos, T., Lozano, R., Naghavi, M., Flaxman, A., Michaud, C., Ezzati, M., Shibuya, K., Salomon, J.A., Abdalla, S., Matzopoulos, R. and Mayosi, B.M. 2012. Disability-adjusted life years (DALYs) for 291 diseases and injuries in 21 regions, 1990-2010: a systematic analysis for the Global Burden of Disease Study 2010. *Lancet*, 380(December 15): 2197-2223.

Mutua, F.M., M'Imunya, J.M. and Wiysonge, C.S. 2012. Genital ulcer disease treatment for reducing sexual acquisition of HIV. *Cochrane Database of Systematic Reviews*, 8: 1-27.

Myer, L., Zulliger, R., Bekker, L. and Abrams, E. 2012. Systemic delays in the initiation of antiretroviral therapy during pregnancy do not improve outcomes of HIV-positive mothers: a cohort study. *BMC Pregnancy and Childbirth*, 12:94.

Myers, L., Zulliger, R., Black, S., Pienaar, D. and Bekker, L. 2012. Pilot programme for the rapid initiation of antiretroviral therapy in pregnancy in Cape Town, South Africa. *Aids Care*, 24(8): 986-992.

Nachega, J.B., Uthman, O.A., Yo, Y.-S., Lo, M., Anude, C., Kayembe, P., Wabwire-Mangen, F., Gomo, E., Sow, P.S., Obike, U., Kusiaku, T., Mills, E., Mayosi, B.M. and Ijsselmuiden, C. 2012. Current status and future prospects of epidemiology and public health training and research in the WHO African region. *International journal of epidemiology*, 41: 1829-1846.

Nachega, J.B., Morrioni, C., Chaisson, R., Goliath, R., Efron, A., Ram, M. and Maartens, G. 2012. Impact of Immune reconstitution inflammatory syndrome on antiretroviral therapy adherence. *Patient Preference and Adherence*, 6: 887-891.

Nglazi, M., Kaplan, R., Caldwell, J., Peton, N., Lawn, S.D., Wood, R. and Bekker, L. 2012. Antiretroviral treatment uptake in patients with HIV-associated TN attending co-located TB and ART services. *SAMJ South African Medical Journal*, 102(12): 936-939.

Nglazi, M., Kranzer, K., Holele, P., Kaplan, R., Mark, D., Jaspán, H.B., Lawn, S.D., Wood, R. and Bekker, L. 2012. Treatment outcomes in HIV-infected adolescents attending a community-based antiretroviral therapy clinic in South Africa. *BMC Infectious Diseases*, 12:21.

Nglazi, M., Van Schaik, N., Kranzer, K., Lawn, S.D., Wood, R. and Bekker, L. 2012. An incentivized HIV counseling and testing program targeting hard-to-reach unemployed men in Cape Town, South Africa. *Jaids-Journal of Acquired Immune Deficiency Syndromes*, 59(3): e28-e34.

Ngongo, P.B., Priddy, F.H., Park, H.H., Becker, J., Bender, B., Fast, P., Anzala, O., Mutua, G., Ruzagira, E., Kamali, A., Karita, E., Mugo, P., Chomba, E., Bekker, L., Roux, S.M., Nanvubya, A. and Mebrahtu, T. 2012. Developing standards of care for HIV prevention research in developing countries - a case study of 10 research centers in Eastern and Southern Africa. *Aids Care*, 24(10): 1277-1289.

Ntale, R., Chopera, D., Ngandu, N., Assis de Rosa, D., Zembe, L., Gamielidien, H., Mlotshwa, M., Werner, L., Woodman, Z.L., Mlisana, K., Abdool Karim, S., Gray, C., Williamson, C. and caprisa 002 study team, c.

2012. Temporal association of HLA-B*81:01 and B*39:10 mediated HIV-1 p24 sequence evolution with disease progression. *Journal of Virology*, 86(22): 12013-12024.

Ntsekhe, M., Matthews, K., Wolske, J., Badri, M., Wilkinson, K., Wilkinson, R.J., Sturrock, E.D. and Mayosi, B.M. 2012. Ac-SDKP (N-acetyl-seryl-aspartyl-lysyl-proline) and Galectin-3 levels in tuberculous pericardial effusion: implications for pathogenesis and prevention of pericardial constriction. *Heart*, 98(17): 1326-1328.

Ntsekhe, M., Mayosi, B.M. and Gumboo, T. 2012. Quantification of echodensities in tuberculous pericardial effusion using fractal geometry: a proof of concept study. *Cardiovascular Ultrasound*, 10:30.

Ntsekhe, M., Wiysonge, C.S., Commerford, P.J. and Mayosi, B.M. 2012. The prevalence and outcome of effusive constrictive pericarditis: a systematic review of the literature. *Cardiovascular Journal of Africa*, 23: 281-285.

Ntusi, N., Badri, M., Khalfey, H., Whitelaw, A.C., Oliver, S.P., Piercy, J.L., Raine, R.I., Joubert, I. and Dheda, K. 2012. ICU-associated acinetobacter baumannii colonisation/infection in a high HIV-prevalence resource-poor setting. *PLoS One*, 7(12): e52452.

Nyo, M.T.L., Schoeman, L., Sookhayi, R. and Mayosi, B.M. 2012. HIV infection, pulmonary arterial hypertension and pregnancy: a fatal triad. *Cardiovascular Journal of Africa*, 23(7): e4-e6.

Obiero, J., Mwethera, P.G. and Wiysonge, C.S. 2012. Topical microbicides for prevention of sexually transmitted infections. *Cochrane Database of Systematic Reviews*, 6(CD007961): 1-94.

Obiero, J., Mwethera, P.G., Hussey, G.D. and Wiysonge, C.S. 2012. Vaginal microbicides for reducing the risk of sexual acquisition of HIV infection in women: systematic review and meta-analysis. *BMC Infectious Diseases*, 12:289.

Okpechi, I.G., Ayodele, O., Jones, E., Duffield, M. and Swanepoel, C.R. 2012. Outcome of patients with membranous lupus nephritis in Cape Town South Africa. *Nephrology Dialysis Transplantation*, 27: 3509-3515.

Okpechi, I.G., Rayner, B.L. and Swanepoel, C.R. 2012. Peritoneal dialysis in Cape Town, South Africa. *Peritoneal Dialysis International*, 32(3): 254-260.

Okpechi, I.G., Swanepoel, C.R. and Rayner, B.L. 2012. Outcomes of rationing dialysis therapy in biopsy-proven end-stage renal disease in South Africa. *Journal of Nephrology*, 25(4): 551-557.

Okpechi, I.G., Swanepoel, C.R., Tiffin, N., Duffield, M. and Rayner, B.L. 2012. Clinicopathological insights into lupus nephritis in South Africa: a study of 251 patients. *Lupus*, 21: 1017-1024.

Oni, T., Tsekela, R., Kwaza, B., Manjezi, L., Bangani, N.M., Wilkinson, K., Coetzee, D.J. and Wilkinson, R.J. 2012. A recent HIV diagnosis is associated with non-completion of isoniazid preventive therapy in an HIV-infected cohort in Cape Town. *PLoS One*, 7(12): e52489.

Oni, T., Gideon, H., Bangani, N.M., Tsekela, R., Seldon, R.R., Wood, K.A., Wilkinson, K., Goliath, R., Ottenhoff, T.H.M. and Wilkinson, R.J. 2012. Risk factors associated with indeterminate gamma interferon responses in the assessment of latent tuberculosis infection in a high incidence environment. *Clinical and Vaccine Immunology*, 19(8): 1243-1247.

Oni, T., Gideon, H., Bangani, N.M., Tsekela, R., Seldon, R.R., Wood, K.A., Wilkinson, K., Goliath, R., Ottenhoff, T.H.M. and Wilkinson, R.J. 2012. Smoking, BCG and employment and the risk of tuberculosis infection in HIV-infected persons in South Africa. *PLoS One*, 7(10): e47072.

Opie, L.H. 2012. Allopurinol for Heart Failure Novel Mechanism. *Journal of the American College of Cardiology*, 59(9): 809-812.

Opie, L.H. 2012. Cardioprotection from metabolism to molecules to certainties. *SAMJ South African Medical Journal*, 102(6): 491-492.

Oudijk, J.M., McIlleron, H., Mulenga, V., Chintu, C., Merry, C., Walker, A.S., Cook, A., Gibb, D.M. and Burger, D.M. 2012. Pharmacokinetics of nevirapine in HIV-infected children under 3 years on rifampicin-based antituberculosis treatment. *Aids*, 26(12): 1523-1528.

Owen, P., Leisegang, F., Whitelaw, A.C., Simpson, J., Baker, S., Wurznner, R., Potter, P.C. and Orren, A. 2012. Complement component C5 and C6 mutation screening indicated in meningococcal disease in South Africa. *SAMJ South African Medical Journal*, 102(6): 525-527.

Pandie, M., van Der Plas, H., Maartens, G. and Mendelson, M. 2012. The role of the infectious diseases unit at Groote Schuur Hospital in addressing South Africa's greatest burden of disease. *SAMJ South African Medical Journal*, 102(6): 528-531.

Parker, W., Steyn, N., Levitt, N. and Lombard, C. 2012. Health promotion services for patients having non-communicable diseases: feedback from patients and health care providers in Cape Town, South Africa. *BMC Public Health*, 12:503.

Pathai, S., Lawn, S.D. and Gilbert, C. 2012. Cytomegalovirus retinitis associated with HIV in resource-constrained settings: systematic screening and case detection. *International Health*, 4: 86-94.

Pathai, S., Weiss, H., Lawn, S.D., Peto, T., D'Costa, L.M., Cook, C.D., Wong, T.Y. and Gilbert, C.E. 2012. Retinal arterioles narrow with increasing duration of anti-retroviral therapy in HIV Infection: a novel estimator of vascular risk in HIV? *PLoS One*, 7(12): e51405.

Peer, N., Steyn, K., Lombard, C., Lambert, E.V., Vythilingum, B. and Levitt, N. 2012. Rising diabetes prevalence among urban-dwelling black South Africans. *PLoS One*, 7(9): e43336.

Pepper, D.J., Marais, S., Bhajjee, F., Wilkinson, R.J., De Azevedo, V. and Meintjes, G. 2012. Assessment at antiretroviral clinics during TB treatment reduces loss to follow-up among HIV-infected patients.. *PLoS One*, 7(6): e37634.

Peter, J., Cashmore, T., Meldau, R., Theron, G., Van Zyl Smit, R. and Dheda, K. 2012. Diagnostic accuracy of induced sputum LAM ELISA for tuberculosis diagnosis in sputum-scarce patients. *International Journal of Tuberculosis and Lung Disease*, 16(8): 1108-1112.

Peter, J., Theron, G., Muchinga, T., Govender, U. and Dheda, K. 2012. The diagnostic accuracy of urine-based xpert MTB/RIF in HIV-infected hospitalized patients who are smear-negative or sputum scarce. *PLoS One*, 7(7): e39966.

Peter, J., Theron, G., Van Zyl Smit, R., Haripersad, A., Mottay, L., Kraus, S., Binder, A.B., Meldau, R., Hardy, A. and Dheda, K. 2012. Diagnostic accuracy of a urine lipoarabinomannan strip-test for TB detection in HIV-Infected hospitalised patients. *European Respiratory Journal*, 40(5): 1211-1220.

Petros, G. 2012. Use of a mixed methods approach to investigate the support needs of older caregivers to family members affected by HIV and AIDS in South Africa. *Journal of Mixed Methods Research*, 6(4): 275-293.

Price, M.A., Rida, W., Mwangome, M., Mutua, G., Middelkoop, K., Roux, S.M., Okuku, H.S., Bekker, L., Anzala, O., Ngugi, E., Stevens, G., Chetty, P., Amornkul, P.N. and Sanders, E.J. 2012. Identifying at-risk populations in Kenya and South Africa: HIV incidence in cohorts of men who report sex with men, sex workers, and youth. *J AIDS-Journal of Acquired Immune Deficiency Syndromes*, 59(2): 185-193.

Rangaka, M.X., Gideon, H., Wilkinson, K., Pai, M., Mwansa-Kambafwile, J.R.M., Maartens, G., Glynn, J.R., Boulle, A.M., Fielding, K.L., Goliath, R., Mathee, S., Titus, R. and Wilkinson, R.J. 2012. Interferon release does not add discriminatory value to smear-negative HIV-tuberculosis algorithms. *European Respiratory Journal*, 39(1): 163-171.

Rangaka, M.X., Wilkinson, K., Glynn, J.R., Ling, D., Menzies, D., Mwansa-Kambafwile, J.R.M., Fielding, K.L., Wilkinson, R.J. and Pai, M. 2012. Predictive value of interferon- release assays for incident active tuberculosis: a systematic review and meta-analysis. *Lancet Infectious Diseases*, 12(1): 45-55.

Rangaka, M.X., Wilkinson, R.J., Glynn, J.R., Boulle, A.M., Van Cutsem, G., Goliath, R., Mathee, S. and Maartens, G. 2012. Effect of antiretroviral therapy on the diagnostic accuracy of symptom screening for Intensified tuberculosis case finding in a South African HIV Clinic. *Clinical Infectious Diseases*, 55(12): 1698-1706.

Rayner, B.L. 2012. Hypertension, chronic kidney disease, atrial fibrillation and the newer anticoagulants. *South African Family Practice*, 54(5): 418-419.

Rayner, B.L., Ramesar, R.S., Steyn, K., Levitt, N.S., Lombard, C. and Charlton, K.E. 2012. G-protein-coupled receptor kinase 4 polymorphisms predict blood pressure response to dietary modification in black patients with mild-to-moderate hypertension. *Journal of Human Hypertension*, 26(0): 334-339.

Reddy, S.P., Resnicow, K., James, S., Funani, I., kambaran, n., omardien, r., Masuka, M., Sewpaul, R., Vaughan, R.D. and Mbewu, A. 2012. Rapid increases in overweight and obesity among South African adolescents: comparison of data from the South African national youth risk behaviour survey in 2002 and 2008. *American Journal of Public Health*, 102(2): 262-268.

Reid, E., Orrell, C., Stoloff, K. and Joska, J. 2012. Psychotropic prescribing in HIV. *Southern African Journal of HIV medicine*, 13(4): 188-194.

Rey, M.E.C., Ndunguru, J., Berrie, L.C., Paximadis, M., Berry, S., Cossa, N., Nuaila, V.N., Mabasa, K.G., Abraham, N., Rybicki, E.P., Martin, D.P., Pietersen, G. and Esterhuizen, L.L. 2012. Diversity of dicotyledenous-infecting geminiviruses and their associated DNA molecules in Southern Africa, including the South-West Indian Ocean islands. *Viruses-Basel*, 4: 1753-1791.

Rezq, A., Basavarajaiah, S., Latib, A., Takagi, K., Hasegawa, T., Figini, F., Cioni, M., Franco, A., Montorfano, M., Chieffo, A., Maisano, F., Corvaja, N., Alfieri, O. and Colombo, A. 2012. Incidence, management, and outcomes of cardiac tamponade during transcatheter aortic valve implantation. *JACC-Cardiovascular Interventions*, 5(12): 1264-1272.

Ritchie, P.L.M., van Lettow, M., Barnsley, J., Chan, A.K., Joshua, M., Martiniuk, A.L., Schull, M.J. and Zwarenstein, M. 2012. Evaluation of lay health worker's needs to effectively support anti-tuberculosis

treatment adherence in Malawi. *International Journal of Tuberculosis and Lung Disease*, 16(11): 1492-1497.

Robertson, B.D., Altmann, D., Barry 3rd, C.E., Bishai, B., Cole, S., Dick, T., Duncan, K., Dye, C., Ehrh, S., Esmail, H., Flynn, J., Hafner, R., Handley, G., Hanekom, W.A., Van Helden, P., Kaplan, G., Kaufmann, S.H.E., Kim, P., Lienhardt, C., Mizrahi, V., Rubin, E., Schnappinger, D., Sherman, D...R., Thole, J., Vandal, O., Walzl, G., Warner, D., Wilkinson, R.J. and Young, D.B. 2012. Detection and treatment of subclinical tuberculosis. *Tuberculosis*, 92: 447-452.

Rotherham, L.S., Maserumule, M., Dheda, K., Theron, J. and Khati, M. 2012. Selection and application of ssDNA aptamers to detect active TB from sputum samples. *PLoS One*, 7(10): e46862.

Rustomjee, R., Mcleod, R., Hanekom, W.A., Steel, G., Mahomed, H., Hawkridge, A.J., Welte, A., Sinanovic, E., Loots, G., Grobler, A.C., MVUSI, L., Gray, G., Hesselning, A.C., Ginsberg, A.M., Lienhardt, C., Shea, J., Tong, X., Lockhart, S. and Churchyard, G.J. 2012. Key issues in the clinical development and implementation of TB vaccines in South Africa. *Tuberculosis*, 92(5): 359-364.

Sandgren, A., Cuevas, L.E., Dara, M., Gie, R., Grzemska, M., Hawkridge, A.J., Hesselning, A.C., Kampmann, B., Lienhardt, C., Manissero, D., Wingfield, C. and Graham, S. 2012. Childhood tuberculosis: progress requires an advocacy strategy now. *European Respiratory Journal*, 40: 294-297.

Sarkar, R., Lenders, L., Wilkinson, K., Wilkinson, R.J. and Nicol, M.P. 2012. Modern lineages of mycobacterium tuberculosis exhibit lineage-specific patterns of growth and cytokine induction in human monocyte-derived macrophages. *PLoS One*, 7(8): e43170.

Schmidt, S., Hoving, J., Horsnell, W., Mearns, H., Cutler, A., Brombacher, T.M. and Brombacher, F. 2012. Nippostrongylus-induced intestinal hypercontractility requires IL-4 receptor alpha-responsiveness by T cells in mice. *PLoS One*, 7(12): e522111.

Schutz, C., Ismail, Z., Proxenos, C.J., Marais, S., Burton, R., Kenyon, C., Maartens, G., Wilkinson, R.J. and Meintjes, G. 2012. Burden of antituberculosis and antiretroviral drug-induced liver injury at a secondary hospital in South Africa. *SAMJ South African Medical Journal*, 102(6): 506-511.

Schwartz, P.J. 2012. Automatic modulation for chronic heart failure: a new kid on the block? . *European Journal Of Heart Failure*, 14: 1316-1318.

Schwartz, P.J. 2012. Introduction to the arrhythmogenic disorders of genetic origin series. *Circulation-Arrhythmia and Electrophysiology*, 5: 604-605.

Schwartz, P.J., Crotti, L. and Insolia, R. 2012. Long-QT syndrome: from genetics to management. *Circulation-Arrhythmia and Electrophysiology*, 5: 868-877.

Seddon, J.A., Hesselning, A.C., Marais, B.J., McIlleron, H., Peloquin, C.A., Donald, P.R. and Schaaf, H. 2012. Paediatric use of second-line anti-tuberculosis agents: a review. *Tuberculosis*, 92: 9-17.

Seedat, Y. and Rayner, B.L. 2012. South African hypertension guideline 2011. *SAMJ South African Medical Journal*, 102(1): 60-84.

Selker, H.P., Beshansky, J.R., Sheehan, P.R., Massaro, J.M., Griffith, J.L., D'Agostino, R.B., Ruthazer, R., Atkins, J.M., Sayah, A., Levy, M.K., Richards, M.E., Aufderheide, T.P., Braude, D.A., Pirrallo, R.G., Doyle, D.D., Franscone, R.J., Kosiak, D.J., Leaming, J.M., Van Gelder, C.M., Walter, G.-P., Wayne, M.A.,

Woorlard, R.H., Opie, L.H., Rackley, C.E., Apstein, C.S. and Udelson, J.E. 2012. Out-of-hospital administration intravenous glucose-insulin-potassium in patients with suspected acute coronary syndromes. *Jama-Journal of the American Medical Association*, 307(18): 1925-1933.

Selker, H.P., Beshansky, J.R., Griffith, J.L., D'Agostino, R.B., Massaro, J.M., Udelson, J.E., Rashba, E.J., Ruthazer, R., Sheenan, P.R., Desvigne-Nickens, P., Rosenberg, Y.D., Atkins, J.M., Sayah, A., Aufderheide, T.P., Rackley, C.E., Opie, L.H., Lambrew, C., Cobb, L.A., Macleod, B., Ingwall, J.S., Zalenski, R.J. and Apstein, C.S. 2012. Study design for the immediate myocardial metabolic enhancement during initial assessment and treatment in emergency care (immediate) trial: a double-blind randomized controlled trial of intravenous glucose, insulin, and potassium for acute coronary syndromes in emergency medical services. *American Heart Journal*, 163: 315-322.

Setshedi, M., Epstein, D., Winter, T., Myer, L., Watermeyer, G. and Hift, R. 2012. Use of thiopurines in the treatment of inflammatory bowel disease is associated with an increased risk of non-melanoma skin cancer in an at-risk population: a cohort study. *Journal of Gastroenterology and Hepatology*, 27: 385-389.

Shaikh, M.M., Kruger, H.G., Bodenstein, J., Smith, P.J. and du Toit, K. 2012. Anti-inflammatory activities of selected synthetic homoisoflavanones. *Natural Product Research*, 26(16): 1473-1482.

Shannon, J., Latib, A. and Colombo, A. 2012. Iatrogenic perforation of the medial circumflex artery following femoral venous cannulation for transcatheter aortic valve replacement, presenting with retroperitoneal hematoma and successfully managed by percutaneous embolization and coiling. *Catheterization and Cardiovascular Interventions*, 80: 1002-1006.

Skelton, M., Kew, M.C. and Kramvis, A. 2012. Distinct mutant hepatitis B virus genomes, with alterations in all four open reading frames, in a single South African hepatocellular carcinoma patient. *Virus Research*, 163(1): 59-65.

Skolimowska, K., Rangaka, M.X., Meintjes, G., Pepper, D.J., Seldon, R.R., Matthews, K., Wilkinson, R.J. and Wilkinson, K. 2012. Altered Ratio of IFN- γ /IL-10 in patients with drug resistant mycobacterium tuberculosis and HIV-tuberculosis immune reconstitution inflammatory syndrome. *PLoS One*, 7(10): e46481.

Sliwa, K. and Zilla, P. 2012. Rheumatic heart disease: the tip of the iceberg. *Circulation*, 125: 3060-3062.

Sliwa, K., Carrington, M., Becker, A., Thienemann, F., Ntsekhe, M. and Stewart, S. 2012. Contribution of the human immunodeficiency virus/acquired immunodeficiency syndrome epidemic to de novo presentations of heart disease in the heart of Soweto study cohort. *European Heart Journal*, 33: 866-874.

Sliwa, K., Lyons, J.G., Carrington, M., Lecour, S., Marais, A.D., Raal, D. and Stewart, S. 2012. Different lipid profiles according to ethnicity in the heart of Soweto study cohort of de novo presentations of heart disease. *Cardiovascular Journal of Africa*, 23(7): 389-395.

Smythe, W., Khandelwal, A., Merle, C., Rustomjee, r., Gninafon, M., Bocar Lo, M., Sow, O.B., Olliaro, P., Lienhardt, C., Horton, J., Smith, P.J., McIlhannon, H. and Simonsson, U. 2012. A semimechanistic pharmacokinetic-enzyme turnover model for rifampin autoinduction in adult tuberculosis patients. *Antimicrobial Agents and Chemotherapy*, 56(4): 2091-2098.

Somers, S., Frias, M., Lacerda, L., Opie, L.H. and Lecour, S. 2012. Interplay between safe and risk pathways in sphingosine-1-phosphate-induced cardioprotection. *Cardiovascular Drugs and Therapy*, 26: 227-237.

Stanley, A., Candy, S., Levin, C. and Heckmann, J.M. 2012. The complexity of HIV vasculopathy. *SAMJ South African Medical Journal*, 102(6): 474-476.

Stewart, S., Carrington, M., Pretorius, S., Okechukwu, O.S., Blauwet, L., Antras-Ferry, J. and Sliwa, K. 2012. Elevated risk factors but low burden of heart disease in urban African primary care patients: a fundamental role for primary prevention. *International Journal of Cardiology*, 158: 205-210.

Stinson, K., Boulle, A.M., Smith, P.J., Stringer, E.M., Stringer, J.S.A. and Coetzee, D.J. 2012. Coverage of the prevention of mother-to-child transmission program in the Western Cape, South Africa using cord blood surveillance. *J AIDS-Journal of Acquired Immune Deficiency Syndromes*, 60(2): 199-204.

Streicher, E.M., Bergval, I., Dheda, K., Bottger, E.C., Gey van Pittius, N.C., Bosman, M., Coetzee, G., Anthony, R.M., Van Helden, P., Victor, T. and Warren, R.M. 2012. Mycobacterium tuberculosis population structure determines the outcome of genetic - based second - line drug resistance testing. *Antimicrobial Agents and Chemotherapy*, 56(5): 2420-2427.

Stuart-Clark, H., Vorajee, N., Zuma, S., van Niekerk, L., Burch, V.C., Raubenheimer, P.J. and Peter, J. 2012. Twelve-month outcomes of patients admitted to the acute general medical service at Groote Schuur Hospital. *SAMJ South African Medical Journal*, 102(6): 549-553.

Sunpath, H., Edwin, C., Chelin, N., Nadesan, S., Maharaj, R., Moosa, M.-Y.S., Smeaton, L., Court, R.G., Knight, S.E., Gwyther, E. and Murphy, R. 2012. Operationalizing early antiretroviral therapy in HIV-infected in-patients with opportunistic infections including tuberculosis. *International Journal of Tuberculosis and Lung Disease*, 16(7): 917-923.

Suthar, A.B., Lawn, S.D., del Amo, J., getahun, H., Dye, C., Sculier, D., Sterling, T.R., Chaisson, R., Williams, B., Harries, A.D. and Granich, R. 2012. Antiretroviral therapy for prevention of tuberculosis in adults with HIV: a systematic review and meta-analysis. *PLoS One*, 9(7): e1001270.

Svensson, E., Van der Walt, J.-S., Barnes, K.I., Cohen, K., Kredo, T., Huitema, A., Nachega, J.B., Karlsson, M.O. and Denti, P. 2012. Integration of data from multiple sources for simultaneous modelling analysis: experience from nevirapine population pharmacokinetics. *British Journal of Pharmacology*, 74(3): 465-476.

Swanepoel, C.R., Wearne, N., Duffield, M. and Okpechi, I.G. 2012. The Evolution of our knowledge of HIV-associated kidney disease in Africa. *American Journal of Kidney Diseases*, 60(4): 668-678.

Swart, M., Whitehorn, H., Ren, Y., Smith, P.J., Ramesar, R.S. and Dandara, C. 2012. PXR and CAR single nucleotide polymorphisms influence plasma efavirenz levels in South African HIV/AIDS patients. *BMC Medical Genetics*, 13:112.

Tacon, C., Guantai, E.M., Smith, P.J. and Chibale, K. 2012. Synthesis, biological evaluation and mechanistic studies of totarol amino alcohol derivatives as potential antimalarial agents. *Bioorganic & Medicinal Chemistry*, 20: 893-902.

Takagi, K., Ielasi, A., Shannon, J., Latib, A., Godino, C., Davidavicius, G., Mussardo, M., Ferrarello, S., Figini, F., Carlino, M., Montorfano, M., Chieffo, A., Nakamura, S. and Colombo, A. 2012. Clinical and procedural predictors of suboptimal outcome after the treatment of drug-eluting stent restenosis in the unprotected distal left main stem. *Circulation-Cardiovascular Interventions*, 5: 491-498.

Tan, W.C., Vollmer, W.M., Lamprecht, B., Mannino, D.M., Nizankowska-Mogilnicka, E., Mejza, F., Gislason, T., Burney, P.G.J., Buist, S.A., Bateman, E.D., Jithoo, A. and Johannisen, C.F. 2012. Worldwide patterns of bronchodilator responsiveness: results from the Burden of Obstructive Lung Disease study. *Thorax*, 67: 718-726.

Testa, L., Agnifili, M., Latini, R.A., Mattioli, R., Lanotte, S., De Marco F, F., Oreglia, J., Latib, A., Pizzocri, S., Laudisa, M.L., Brambilla, N. and Bedogni, F. 2012. Adjusted indirect comparison of new oral anticoagulants for stroke prevention in atrial fibrillation. *QJM-An International Journal of Medicine*, 105: 949-957.

Thelingwani, R.S., Dhansay, K., Smith, P., Chibale, K. and Masimirembwa, C.M. 2012. Potent inhibition of CYP1A2 by frutinone A, an active ingredient of the broad spectrum antimicrobial herbal extract from *P.fruticosa*. *Xenobiotica*, 42(10): 989-1000.

Theron, G., Peter, J., Lenders, L., Van Zyl Smit, R., Meldau, R., Govender, U. and Dheda, K. 2012. Correlation of mycobacterium tuberculosis specific and non-specific quantitative th1 t-cell responses with bacillary load in a high burden setting. *PLoS One*, 7(5): e37436.

Theron, G., Pooran, A., Peter, J., Van Zyl Smit, R., Mishra, H., Meldau, R., Calligaro, G., Allwood, B.W., Sharma, S.K., Dawson, R. and Dheda, K. 2012. Do adjunct tuberculosis tests, when combined with Xpert MTB/RIF, improve accuracy and the cost of diagnosis in a resource-poor setting. *European Respiratory Journal*, 40(1): 161-168.

Theron, G., Pinto, L., Peter, J., Mishra, H.K., Mishra, H., Van Zyl Smit, R., Sharma, S.K. and Dheda, K. 2012. The use of an automated quantitative polymerase chain reaction (Xpert MTB/RIF) to predict the sputum smear status of tuberculosis patients. *Clinical Infectious Diseases*, 54(3): 384-388.

Thomas, A., Orren, A., Connaughton, J., Feighery, C., Morgan, B.P. and Roberts, A. 2012. Characterization of a large genomic deletion in four irish families with C7 deficiency. *Molecular Immunology*, 50: 57-59.

Thompson, M.A., Mugavero, M.J., Amico, R., Cargill, V.A., Chang, L., Gross, R., Orrell, C., Altice, F.L., Bangsberge, D.R., Bartlett, J.G., Beckwith, C.G., Dowshen, N., Gordon, C.M., Horn, T., Kumar, P., Scott, J.D., Stirratt, M.J., Remien, R.H., Simoni, J.M. and Nachega, J. 2012. Guidelines for improving entry into and retention in care and antiretroviral adherence for person's with HIV: evidence based recommendations from an international association of physicians in AIDS care panel. *Annals of Internal Medicine*, 156: 817-833.

Tibazarwa, K., Lee, G., Mayosi, B.M., Carrington, M., Stewart, S. and Sliwa, K. 2012. The 12-lead ECG in peripartum cardiomyopathy. *Cardiovascular Journal of Africa*, 23(6): 322-329.

To, T., Stanojevic, S., Moores, G., Gershon, A., Bateman, E.D., Cruz, A.A. and Boulet, L.-P. 2012. Global asthma prevalence in adults: findings from the cross-sectional world health survey. *BMC Public Health*, 12:204.

Tod, B., Carrara, H., Levin, M. and Todd, G. 2012. Dermatological manifestations of measles infection in hospitalised paediatric patients observed in the 2009 - 2011 Western Cape epidemic. *SAMJ South African Medical Journal*, 102(6): 356-359.

Van der Straten, A., Montgomery, E.T., Cheng, H., Wegner, L., Masenga, G., von Mollendorf, C., Bekker, L., Ganesh, S., Young, K., Romano, J., Nel, A. and Woodson, C. 2012. High acceptability of a vaginal

ring intended as a microbicide delivery method for HIV prevention in African women. *AIDS and Behavior*, 16: 1775-1786.

Van Dieren, S., Beulens, J., Kengne, A.P., Peelen, L.M., Rutten, G., Woodward, M., van der Schouw, Y.T. and Moons, K.G.M. 2012. Prediction models for the risk of cardiovascular disease in patients with type 2 diabetes: a systematic review. *Heart*, 98: 360-369.

Van Dieren, S., Czernichow, S., Chalmers, J., Kengne, A.P., de Galan, B.E., Poulter, N., Woodward, M., Beulens, J., Grobbee, D.E., van der Schouw, Y.T. and Zoungas, S. 2012. Weight changes and their predictors amongst the 11 140 patients with type 2 diabetes in the advance trial. *Diabetes Obesity & Metabolism*, 14: 464-469.

Van Heerden, L., Cloete, T.T., Breytenbach, W.J., De Kock, C., Smith, P.J., Breytenbach, J.C and N'Da, D.D. 2012. Synthesis and in vitro antimalarial activity of series of bisquinoline and bispyrrolo [1,2a] quinoxaline compounds. *European Journal of Medicinal Chemistry*, 55: 335-345.

Van Niekerk, L., Scribante, L. and Raubenheimer, P.J. 2012. Suicidal ideation and attempt among South African medical students. *SAMJ South African Medical Journal*, 102(6): 372-373.

Van Schalkwyk, S., Bezuidenhout, J., Burch, V.C., Clarke, M., Conradie, H., van Heerden, B. and de Villiers, M. 2012. Developing an educational research framework for evaluating rural training of health professionals: a case for innovation. *Medical Teacher*, 34: 1064-1069.

Visser, M.M.E., Stead, M., Walzl, G., Warren, R.M., Schomaker, M., Grewal, H.M.S., Swart, E.C. and Maartens, G. 2012. Baseline predictors of sputum culture conversion in pulmonary tuberculosis: importance of cavities, smoking, time to detection and w-beijing genotype. *PLoS One*, 7(1): e29588.

Vogel, J., Nel, D., Chapman, L. and Burch, V.C. 2012. The Game: student 'teaching' objective structured clinical examinations in South Africa. *Medical Education*, 46: 501-527.

Vordermeier, H., Hewinson, R.G., Wilkinson, R.J., Wilkinson, K., Gideon, H., Young, D.B. and Sampson, S.L. 2012. Conserved immune recognition hierarchy of mycobacterial PE/PPE proteins during Infection in natural hosts. *PLoS One*, 7(8): e40890.

Vos, T., Flaxman, A., Naghavi, M., Lozano, R., Michaud, C., Ezzati, M., Shibuya, K., Salomon, J.A., Abdalla, S., Aboyans, V., Matzopoulos, R. and Mayosi, B.M. 2012. Years lived with disability (YLDs) for 1160 sequelae of 289 diseases and injuries 1990-2010: a systematic analysis for the global burden of disease study 2010. *Lancet*, 380 (December): 2163-2196.

Walensky, R.P., Park, J.-E., Wood, R., Freedberg, K.A., Scott, C.A., Bekker, L., Losina, E., Mayer, K.H., Seage III, G.R. and Paltiel, A.D. 2012. The cost-effectiveness of pre-exposure prophylaxis for HIV infection in South African women. *Clinical Infectious Diseases*, 54(10): 1504-1513.

Walenta, K., Schwarz, V., Schirmer, S.H., Kindermann, I., Friedrich, E.B., Solomayer, E.F., Sliwa, K., Labidi, S., Hilfiker-Kleiner, D. and Bohm, M. 2012. Circulating microparticles as indicators of perpartum cardiomyopathy. *European Heart Journal*, 33: 1469-1479.

Walker, N.F., O Clark, S., Oni, T., Andreu, N., Tezera, L., Singh, S., Saraiva, L., Pedersen, B., Kelly, D.L., Tree, J.A., D' Armiento, J., Meintjes, G., Mauri, M.A., Williams, A., Wilkinson, R.J., Friedland, J. and Elkington, P.T.G. 2012. Doxycycline and HIV infection suppress tuberculosis-induced matrix metalloproteinases. *American Journal of Respiratory and Critical Care Medicine*, 185(9): 989-997.

Wallis, L., Papathanasopolous, M.A., Fox, M.P., Conradie, F., Ive, P., Orrell, C., Zeinecker, J., Sanne, I., Wood, R., McIntyre, J., Stevens, W.S., The CIPRA SA project 1 study team, C., Badal-Faesen, S., Botile, M., Choonilal, N., Gelant, J. and Grab, J. 2012. Low rates of nucleoside reverse transcriptase inhibitor resistance in a well-monitored cohort in South Africa on antiretroviral therapy. *Antiviral Therapy*, 17: 313-320.

Wandeler, G., Keiser, O., Mulenga, L., Hoffmann, C.J., Wood, R., Chaweza, T., Brennan, A., Prozesky, H., Garone, D., Giddy, J., Chimbetete, C., Boulle, A.M. and Egger, M. 2012. Tenofovir in Second-Line ART in Zambia and South Africa: collaborative analysis of cohort studies. *Aids-Journal Of Acquired Immune Deficiency Syndromes*, 61(1): 41-48.

Wasserman, S. and Bryer, A. 2012. Early outcomes of thrombolysis for acute ischaemic stroke in a South African tertiary care centre. *SAMJ South African Medical Journal*, 102(6): 541-544.

Watkins, D.A., Sebitloane, M., Engel, M.E. and Mayosi, B.M. 2012. The burden of antenatal heart disease in South Africa: a systematic review. *BMC Cardiovascular Disorders*, 12:23.

Wearne, N., Swanepoel, C.R., Boulle, A.M., Duffield, M. and Rayner, B.L. 2012. The spectrum of renal histologies seen in HIV with outcomes prognostic indicators and clinical correlations. *Nephrology Dialysis Transplantation*, 27: 4109-4118.

Wilkinson, K., Meintjes, G., Seldon, R.R., Goliath, R. and Wilkinson, R.J. 2012. Immunological characterisation of an unmasking TB-IRIS case. *SAMJ South African Medical Journal*, 102(6): 512-517.

Williamson, A.-L., Rybicki, E.P., Shephard, E.G., Gray, G., Bekker, L., Downing, K.J. and Williamson, C. 2012. South African HIV-1 vaccine candidates the journey from the bench to clinical trials. *SAMJ South African Medical Journal*, 102(6): 452-455.

Wiysonge, C.S., Ngcobo, N.J., Jeena, P.M., Madhi, S., Schoub, B.D., Hawkrigde, A.J., Shey, M. and Hussey, G.D. 2012. Advances in childhood immunisation in South Africa: where to now? programme managers' views and evidence from systematic reviews. *BMC Public Health*, 12:578.

Wiysonge, C.S., Bradley, H., Volmink, J., Mayosi, B.M., Mbewu, A. and Opie, L.H. 2012. Beta-blockers for hypertension. *Cochrane Database of Systematic Reviews*, 11: 1-80.

Wiysonge, C.S., Uthman, O.A., Ndumbe, P.M. and Hussey, G.D. 2012. Individual and contextual factors associated with low childhood immunisation coverage in sub-Saharan Africa: a multilevel analysis. *PLoS One*, 7(5): e37905.

Wonkam, A., Ponde, C., Nicholson, N., Fieggen, K., Ramesar, R.S. and Davidson, A. 2012. The burden of sickle cell disease in Cape Town. *SAMJ South African Medical Journal*, 102(9): 752-754.

Wood, R., Racow, K., Bekker, L., Morrow, C.D., Middelkoop, K., Mark, D. and Lawn, S.D. 2012. Indoor social networks in a South African township: potential contribution of location to tuberculosis transmission. *PLoS One*, 7(6): e39246.

Wood, R., Racow, K., Bekker, L., Middelkoop, K., Vogt, M.C., Kreiswirth, B. and Lawn, S.D. 2012. Lipoarabinomannan in urine during tuberculosis treatment: association with host and pathogen factors and mycobacteriuria. *BMC Infectious Diseases*, 12:47.

Yone, E.W.P., Kuaban, C. and Kengne, A.P. 2012. HIV testing, HIV status and outcomes of treatment for tuberculosis in a major diagnosis and treatment centre in Yaounde, Cameroon: a retrospective cohort study. *BMC Infectious Diseases*, 12:190.

Zar, H.J., Eley, B.S., Nicol, M.P., Figaji, A.A. and Hawkrige, A.J. 2012. Advances in childhood tuberculosis - contributions from the University of Cape Town. *SAMJ South African Medical Journal*, 102(6): 518-521.

Zawaira, A., Pooran, A., Barichievy, S. and Chopera, D. 2012. A discussion of molecular biology methods for protein engineering. *Molecular Biotechnology*, 51(1): 67-102.

Zhang, C., Denti, P., Van der Walt, J.-S., Ren, Y., Smith, P.J., Karlsson, M.O. and McIlleron, H. 2012. Population pharmacokinetic model for adherence evaluation using lamivudine concentration monitoring. *Therapeutic Drug Monitoring*, 34(4): 481-484.

Zhang, C., McIlleron, H., Ren, Y., Van der Walt, J.-S., Karlsson, M.O., Simonsson, U. and Denti, P. 2012. Population pharmacokinetics of lopinavir and ritonavir in combination with rifampicin - based antitubercular treatment in HIV-infected children. *Antiviral Therapy*, 17: 25-33.

Zuhlke, L., Myer, L. and Mayosi, B.M. 2012. The promise of computer-assisted auscultation in screening for structural heart disease and clinical teaching. *Cardiovascular Journal of Africa*, 23(7): 405-408.

Zumla, A., Abubaker, I., Raviglione, M., Hoelscher, M., Ditiu, L., McHugh, T., B Squire, B., Cox, H., Ford, N., McNerney, R., Marais, B., Grobusch, M.P., Lawn, S.D., Migliori, G.B., Mwaba, P., O'Grady, J., Pletschette, M., Ramsay, A., Chakaya, J., Schito, M., Swaminathan, S., Memish, Z., Maeurer, M. and Atun, R. 2012. Drug-resistant tuberculosis-current dilemmas, unanswered questions, challenges, and priority needs. *Journal of Infectious Diseases*, suppl 2(205): S228 -S240.

Zvada, S.P., Denti, P., Geldenhuys, H.D., Meredith, S.A., Van As, D., Hatherill, M., Hanekom, W.A., Wiesner, L., Simonsson, U., Jindani, A., Harrison, T. and McIlleron, H. 2012. Moxifloxacin population pharmacokinetics in patients with pulmonary tuberculosis and the effect of intermittent high-dose rifapentine. *Antimicrobial Agents and Chemotherapy*, 56(8): 4471-4473.

Peer-reviewed Journals (not DHET Accredited)

Alagbe S, Swanepoel CR. New onset diabetes after transplant: prevalence, risk factors and outcome. *Cardiovasc J Afr* 2012; 23(7): S2 (Abstract)

Airoldi F, Faglia E, Losa S, Tavano D, Latib A, Lanza G, Clerici G. Antegrade approach for percutaneous interventions of ostial superficial femoral artery: outcomes from a prospective series of diabetic patients presenting with critical limb ischemia. *Cardiovasc Revasc Med.* 2012 Jan-Feb;13(1):20-4.

Ashuntantang GE, Okpechi IG, Lesosky M, Swanepoel CR. Intravenous pulse cyclophosphamide use in a South African renal unit: justification and outcome of patients. *Cardiovasc J Afr* 2012; 23: S2 [Abstract]

Colombo, A. and Latib, A. 2012. Left Bundle Branch Block After Transcatheter Aortic Valve Implantation: Inconsequential or a Clinically Important Endpoint? *Journal of the American College of Cardiology*, 60(18): 40.

Colombo A, Latib A. *J Am Coll Cardiol.* 2012. Left bundle branch block after transcatheter aortic valve implantation: inconsequential or a clinically important endpoint? Oct 30;60(18): doi: 10.1016/j.jacc.2012.07.034. Epub 2012 Oct 3.

Colombo A, Latib A. 2012. Disease progression is as important as culprit lesion treatment. *J Am Coll Cardiol.*59(9):800-1.

De Andrade R, Swanepoel CR. Radionuclide imaging of myocardial perfusion during dialysis. *Cardiovasc J Afr* 2012; 23(7): S5 (Abstract)

Dlamini T, Swanepoel CR, Rayner BL, Moturi G, Okpechi IG. Mesangiocapillary Glomerulonephritis (MCGN) In a Cape Town Tertiary Hospital: A Common Disease with Poor Outcome. *Cardiovasc J Afr* 2012;23: S6 [Abstract]

Draper, C.E., Moller, N.A., Aubin, L.A., Edelstein, G. and Weiss, R. 2012. Developing a standardised patient programme in a primary healthcare curriculum: a needs analysis. *African Journal of Health Professions Education*, 4(2): 97-101.

Fleming, J. 2012. WYaya Kazi (Wire Work/Travaux de fil). *African Journal of Emergency Medicine (AfJEM)*, 2: 87-88

Geduld, H. 2012. Shajara (African Diary/Dossier Africa). *African Journal of Emergency Medicine (AfJEM)*, 2: 85-86

Gottschalk, S., Warner, C., Burch, V.C. and Wallis, L.A. 2012. Warning scores in triage-Is there any point? *African Journal of Emergency Medicine (AfJEM)*, 1: 103-107.

Jabar, A., Wallis, L.A., Ruter, A. and Smith, W.P. 2012. Modified Delphi study to determine optimal data elements for inclusion in an emergency management database system. *African Journal of Emergency Medicine (AfJEM)*, 2: 13-19.

Kranze, K., Govindasamy, D., Ford, N., Johnston, V., and Lawn, S.D. 2012. Quantifying and addressing losses along the continuum of care for people living with HIV infection in sub-Saharan Africa: a systematic review. *Journal of the International AIDS Society*, 15:17383.

Lelasi A, Latib A, Montorfano M, Torracca L, Colombo A. Percutaneous treatment of iatrogenic left main ostial stenosis: after a Bentall operation. *Tex Heart Inst J*. 2012;39(1):144-5.

Lowe, D.M., Redford. P.S., Wilkinson, R.J., O'Garra, A. and Martineau, A.R. 2012. Neutrophils in tuberculosis: friend or foe? *Trends in Immunology*, 33(1):14-25.

Maree M, Okpechi IG, Adam J. Metabolic Syndrome and Cardiovascular Risk in Dialysis Patients attending the Groote Schuur Hospital in Cape Town. *Cardiovasc J Afr* 2012;23: S11 [Abstract]

Mweli D, Okpechi IG. Factors associated with Health-Related Quality Of Life (QOL) in Chronic Haemodialysis Patients in Cape Town. *Cardiovasc J Afr* 2012;23: S14 [Abstract]

Meintjes, G., Scriven, J., and Marais, S. 2012. Management of the Immune Reconstitution Inflammatory Syndrome. *Curr HIV/AIDS Rep*, 9:238-250

Muller, E., Barday, Z., Mccurdie, F. and Kahn, D. 2012. Deceased donor organ transplantation: a single center experience from Cape Town, South Africa. *African Journal of Urology*, 18: 167-169.

Okpechi IG, Ayodele O, Swanepoel CR. Outcome and complications associated with Proliferative Lupus Nephritis in Cape Town. *Cardiovasc J Afr* 2012;23: S18 [Abstract]

Okpechi IG, Rayner BL, Duffield M, Tiffin N, Swanepoel CR. Using clinical models to predict the occurrence of Proliferative Lupus Nephritis: A Study of 251 patients with biopsy-proven Lupus Nephritis. *Cardiovasc J Afr* 2012;23: S18-S19 [Abstract]

Sinxadi, P., McIleron, H., Dave, J.A., Smith, P.J., Levitt, N. and Maartens, G. 2012. Association of lopinavir concentrations with plasma lipid or glucose concentrations in HIV-infected South Africans: a cross sectional study. *AIDS research and therapy*, 9(32): 1-6.

Sinxadi Z Phumla, McIleron M Helen, Dave A Joel, Smith J Peter, Levitt S Naomi, Maartens Gary. Association of lopinavir concentrations and plasma lipid or glucose concentrations in HIV-infected South Africans. *AIDS Research and Therapy* 2012, 9:32. DOI: 10.1186/1742-6405-9-32

Smith, W.P. 2012. Triage in mass casualty situations. *CME-Continuing Medical Education*, 30(11): 413-415.

Swart, M., Ren, Y., Smith, P.J. and Dandara, C. 2012. ABCB1 4036A>G and 1236C>T polymorphisms affect plasma efavirenz levels in South African HIV/AIDS patients. *Frontiers in Genetics*, 3:326.

Syed FF, Ntsekhe M, Wiysonge CS, Badri M, Oh JK, Mayosi BM. [Atrial fibrillation as a consequence of tuberculous pericardial effusion](#). Int J Cardiol. 2012 Jun 28; 158(1):152-4. Epub 2012 May 14. No abstract available. PMID: 22592033 [PubMed - in process]

Rayner BL. The young hypertensive patient. SA Family Practice 2012; 54: S29-S30.

Pefura Yone, E.W., and Kengne, A.P. 2012. Clinical utility and consumer considerations for the use of once-daily nevirapine extended release for HIV infection treatment. HIV/AIDS – Research and Palliative Care, 4: 181 – 184.

The Abridged South African Hypertension Guideline 2011. SA Family Practice 2012; 54: S4-S8